



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

York / Johnson Controls, Inc.
1499 E. Philadelphia Street
York, PA 17403

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Solution XT Rooftop Air Handling Unit

APPROVAL DOCUMENT: Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #D dated 08/14/2012, signed and sealed by Javad Ahmad, P.E., on 08/28/2012, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number & the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, York, PA or Albany, MO and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 12-0215.07 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
04/24/2014

NOA No. 14-0220.01
Expiration Date: 12/09/2019
Approval Date: 04/24/2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0816.03

A. DRAWINGS

1. *Drawing No. MT , titled " Solution XT Rooftop AHU Assembly ", sheets 1 through 19 of 19, prepared by Mechanical Engineering Solutions, Inc., signed and sealed by Mark E. Awmiller, P.E. on November 18, 2004*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Solution XT Air Handling Unit, prepared by Architectural Testing, Test Report No. 47804.01-122-18, dated July 12, 2004, signed and sealed by Steven M. Urich, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

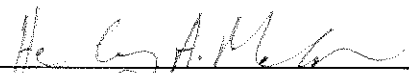
F. STATEMENTS

1. *Statement letter of conformance, dated August 6, 2004, signed and sealed by Mark E. Awmiller, P.E.*
2. *Statement letter of no financial interest, dated August 6, 2004, signed and sealed by Mark E. Awmiller, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0130.03

A. DRAWINGS

1. *Drawing No. 06-07 , titled " Solution XT Rooftop Air Handling Unit ", sheets 1 through 17 of 17, prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #A dated 07/06/2007, signed and sealed by Humayoun Farooq, P.E. on 11/05/2007.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0220.01
Expiration Date: 12/09/2019
Approval Date: 04/24/2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Solution XT Air Handling Unit, prepared by Architectural Testing, Test Report No. 54612.01-122-18, dated September 20, 2005, signed and sealed by Steven M. Urich, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Die Drawings.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0610.16

A. DRAWINGS

1. Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #B dated 03/03/2009, signed and sealed by Arshad Viqar, P.E., on 08/26/2009.

B. TESTS

1. None.

C. CALCULATIONS

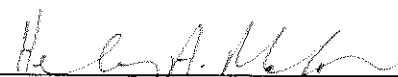
1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. Die Drawings.



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0220.01
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0218.04

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0215.07

A. DRAWINGS

1. Drawing No. 06-07, titled "Solution XT Rooftop Air Handling Unit", sheets 1 through 17 of 17, prepared by Al-Farooq Corporation, dated 08/03/2006, last revision #D dated 08/14/2012, signed and sealed by Javad Ahmad, P.E., on 08/28/2012.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

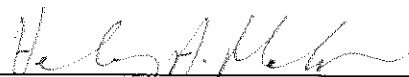
1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance to FBC 2010 Edition, dated January 20, 2012, signed and sealed by Javad Ahmad, P.E.



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0220.01
Expiration Date: 12/09/2019
Approval Date: 04/24/2014

York / Johnson Controls, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

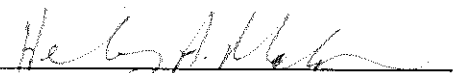
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor

NOA No. 14-0220.01

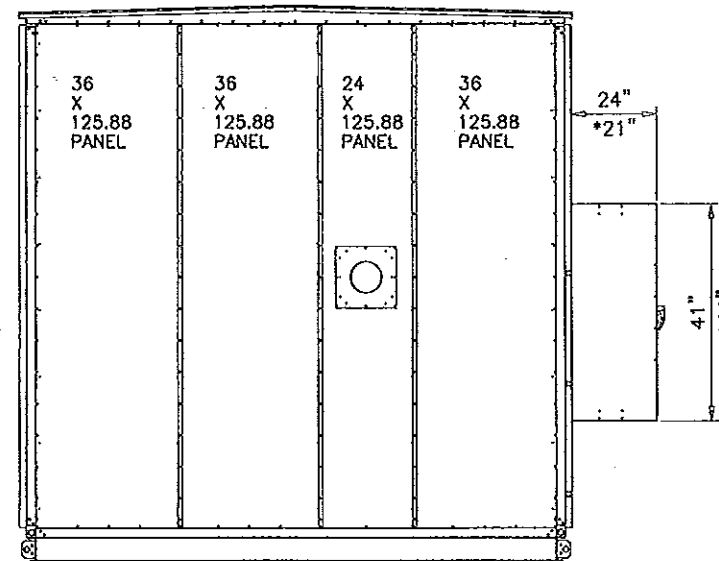
Expiration Date: 12/09/2019

Approval Date: 04/24/2014

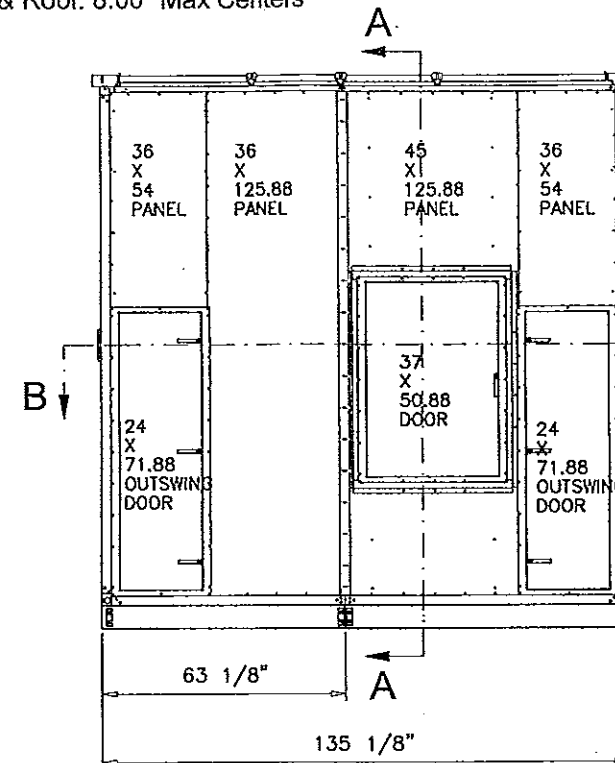
Panels:
Sides & Ends: 16 Ga Outer & Liner
Floor & Roof: 18 Ga Outer & Liner

Fasteners:
Sides Walls: 4.00" Max Centers
Floor & Roof: 8.00" Max Centers

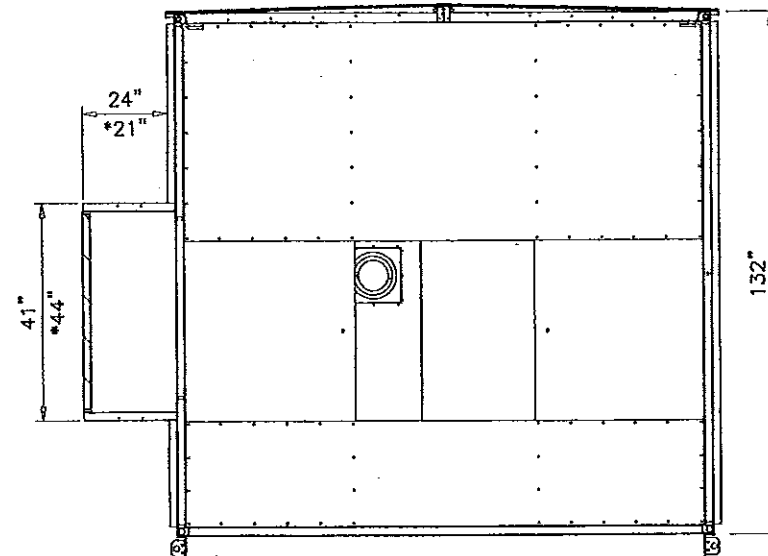
Inside Supports:
Sides: 4 vertical 16 GA Hat Channel per side 086-02108-358
Ends: 3 vertical 12 GA Hat Channel per end 086-02108-869



SIDE ELEV.



FRONT ELEV.

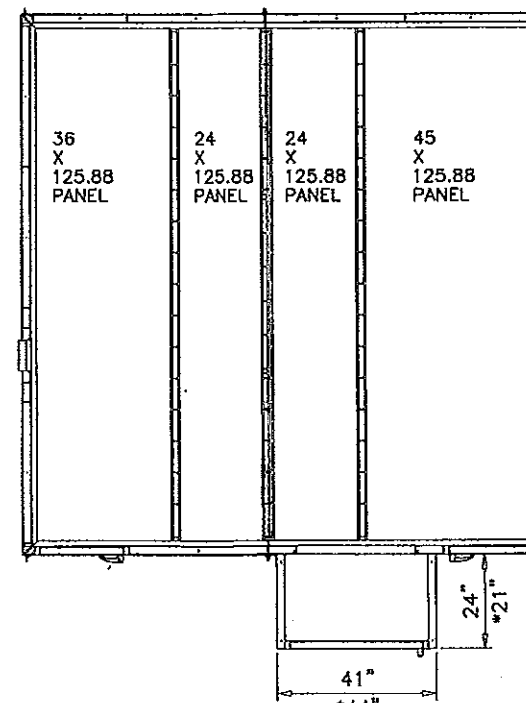


SECTION A-A

GENERAL NOTES

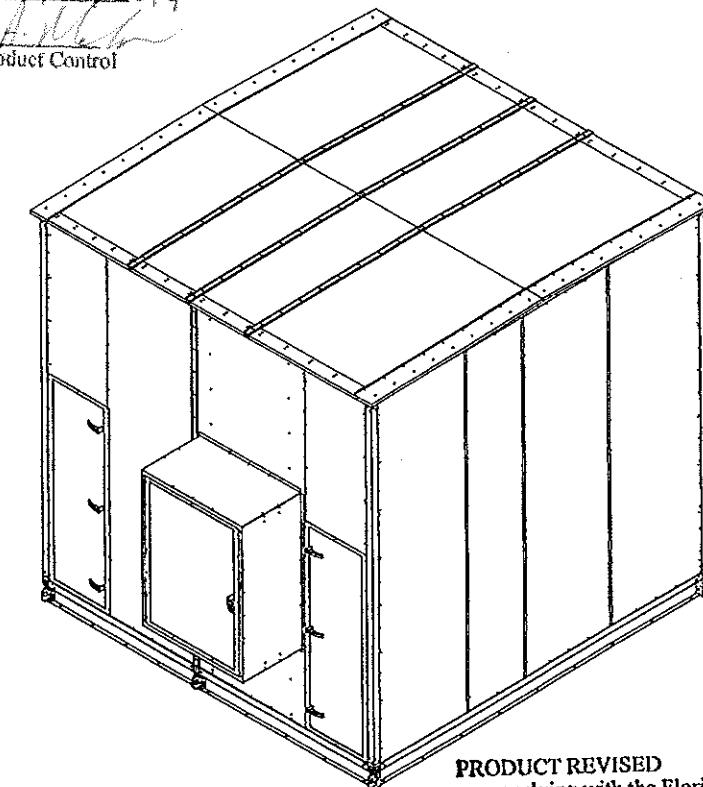
1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A-36 AND STEEL SHEET SHALL CONFORM TO ASTM DESIGNATION A-653, GALVANIZED WITH A COATING DESIGNATION OF G90, MIN. Fy = 48,380 PSI.
3. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. ELECTRICAL AND MECHANICAL DETAILS ARE NOT PART OF THIS APPROVAL.
5. POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.
6. MAX. FLAME SPREAD RATING = 5 AS PER ASTM E-84, SMOKE DEVELOPED INDEX = 205, SPONTANEOUS-IGNITION TEMPERATURE = 869°F.
7. ALL STEEL TO BE SHOP PRIMED BEFORE ASSEMBLY.
8. DISSIMILAR MATERIALS IN CONTACT WITH EACH OTHER SHALL BE PROTECTED IN ACCORDANCE WITH S.F.B.C. CHAPTER 30, SECTION 3004.4.
9. MIN. SOIL BEARING CAPACITY = 2500 PSF.
10. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
11. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.
- *12. ALTERNATIVE CONSTRUCTED MOTOR CONTROL ENCLOSURE SEE SHEET 17 FOR DETAILS.

ALLOWABLE DESIGN LOAD		
COMPONENT	POSITIVE	NEGATIVE
WALL/FLOOR	65 PSF	65 PSF
ROOF	48.7 PSF	48.7 PSF



SECTION B-B

PLAN VIEW



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 28 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0215-01
Expiration Date 12/09/2014
By: J. Ahmad
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COOLER\06-07YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT
YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL (954) 389-9675 FAX (954) 389-9687

no	date	by	description
A	07.06.07	REV. PER BCCD COMMENTS	
B	03.03.09	UPDATED FOR 2007 FBC	
C	01.20.12	UPDATED TO 2010 FBC	
D	08.14.12	2010 EDITION TO NOTE 1	

date: 08-03-06
scale: 1/4"=1'-0"
dr. by: HAMID
chk. by:

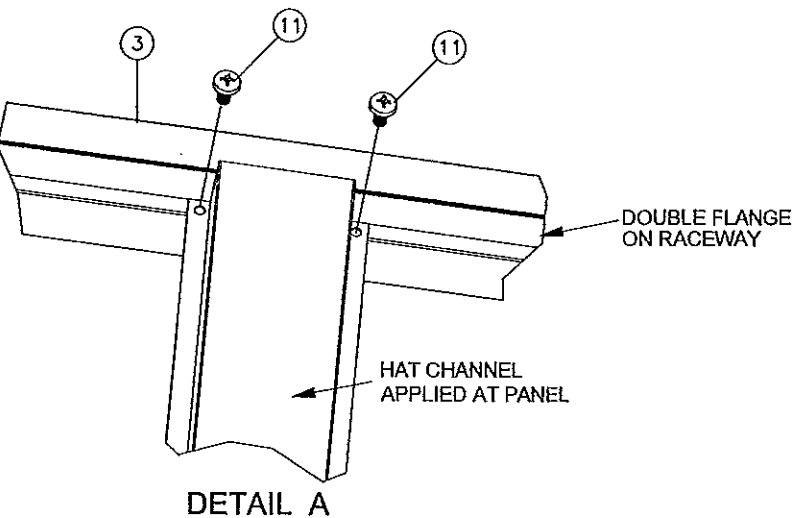
drawing no.
06-07
sheet 1 of 17

ROOF PANELS AND FLOOR PANELS
ARE SAME LENGTH IN NOA.

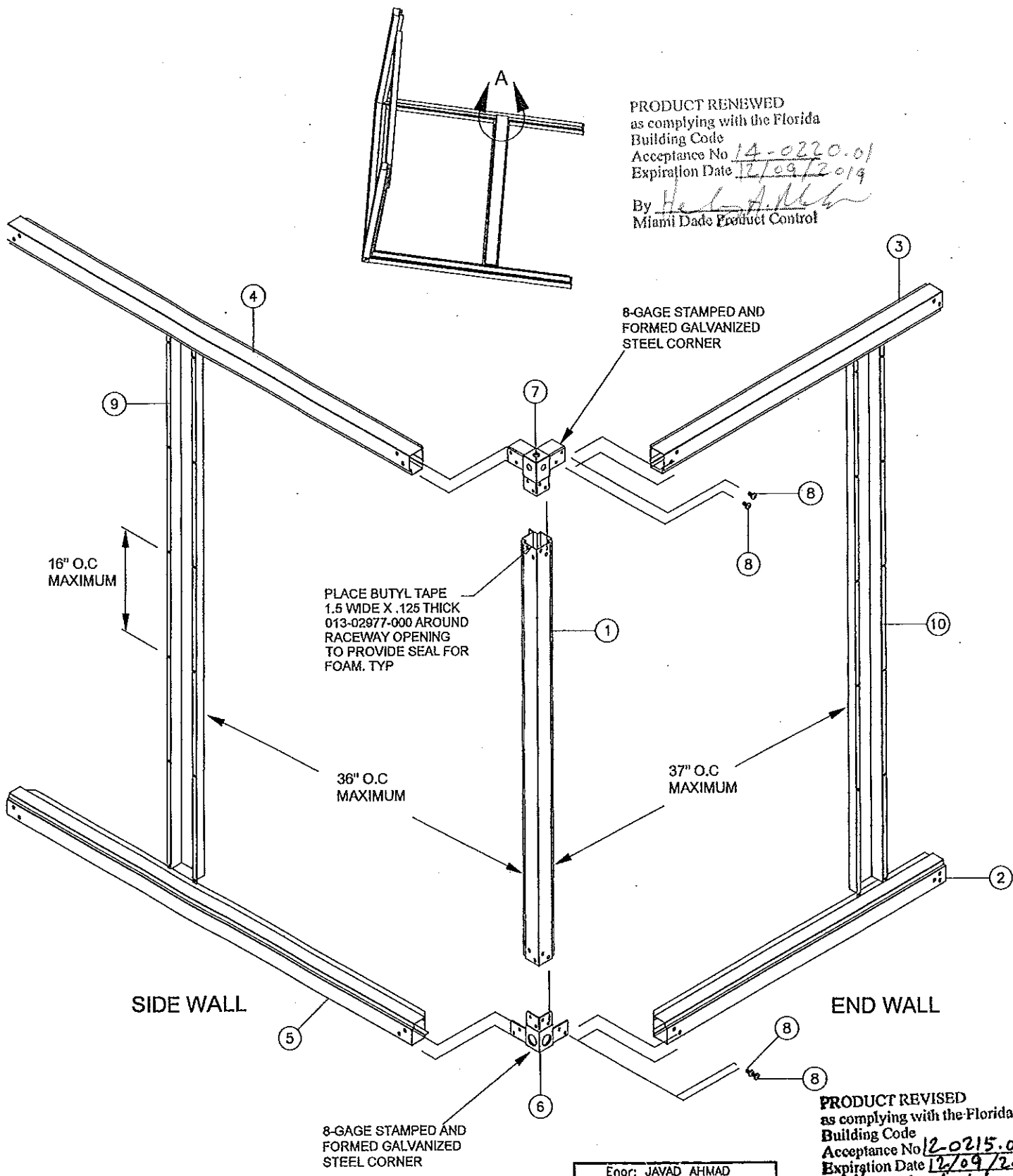
Corner Assembly Instructions:

- 1) Attach DOA Raceway (2) with corner connector (6) using hardware (8) - 2 Screws
- 2) Attach End Raceway (5) with corner connector (6) using hardware (8) - 2 Screws
- 3) Attach Vertical Raceway (1) to corner connector (6) using hardware (8) - 4 Screws
- 4) Attach Corner connector (7) to vertical raceway (1) using hardware (8) - 4 Screws
- 5) Attach DOA Raceway (3) to corner connector (7) using hardware (8) - 2 Screws
- 6) Attach End Raceway (4) to corner connector (7) using hardware (8) - 2 Screws
- 7) Attach Side Hat Channel (9) to Upper and Lower Raceway (4) & (5) Using Hardware (11) - 4 Screws
- 8) Attach Front Hat Channel (10) to Upper and Lower Raceway (2) & (3) Using Hardware (11) - 4 Screws

Three other corners are attached in the same manner.



Parts List		
ITEM	QTY	DESCRIPTION
1	1	Vertical Raceway
2	1	FIA Bottom Raceway
3	1	FIA Top Raceway
4	1	End Top Raceway
5	1	End Bottom Raceway
6	1	Bottom Corner Assembly
7	1	Top Corner Assembly
8	6	Screw, hex socket button head 3/8-16 x 3/4" zinc plated
9	2	Side Wall Hat Channel
10	2	End Wall Hat Channel
11	2	Screw, panhead, 1/4-14x1" zinc plated



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0220.01
Expiration Date 12/09/2019
By *Heidi A. Miller*
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
AUG 28 2012

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Miami Dade Product Control

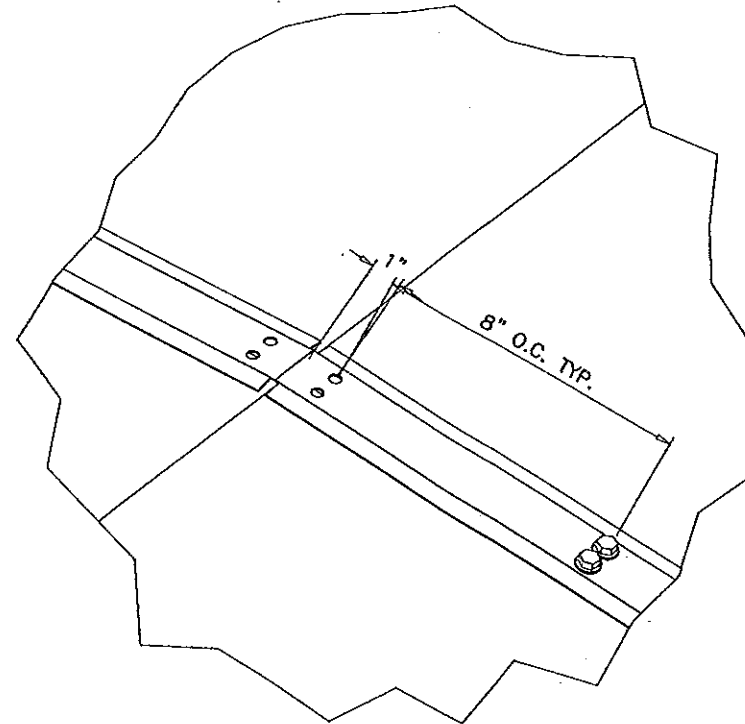
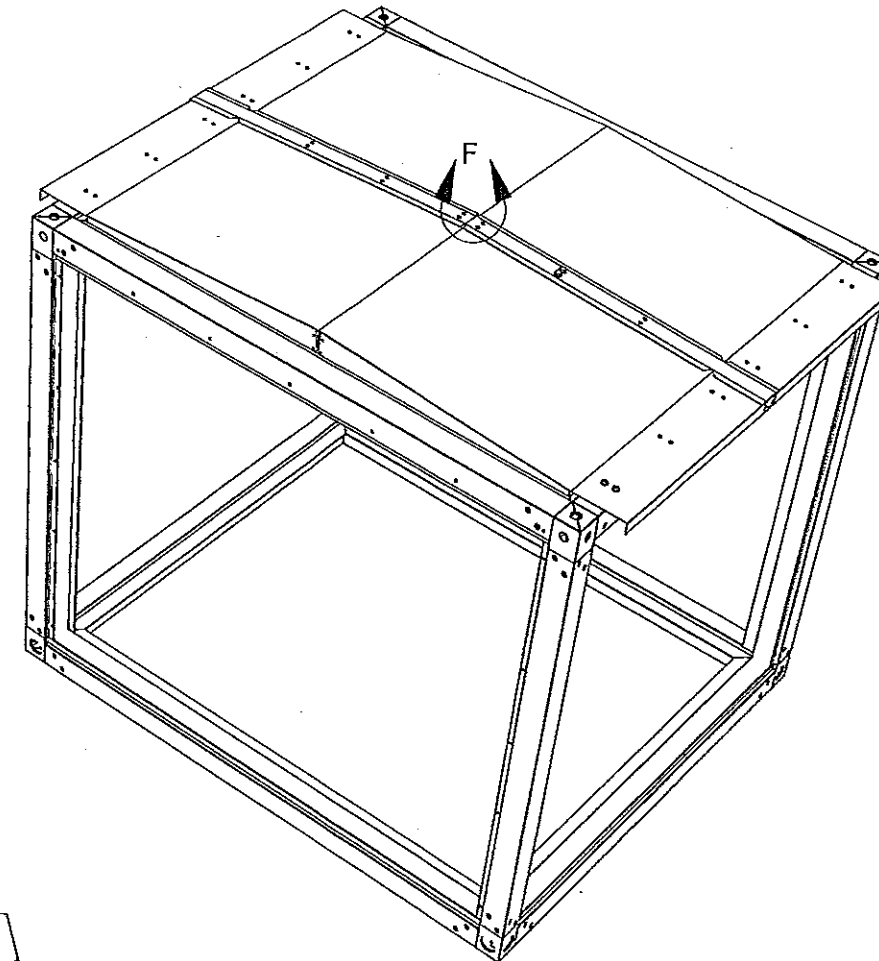
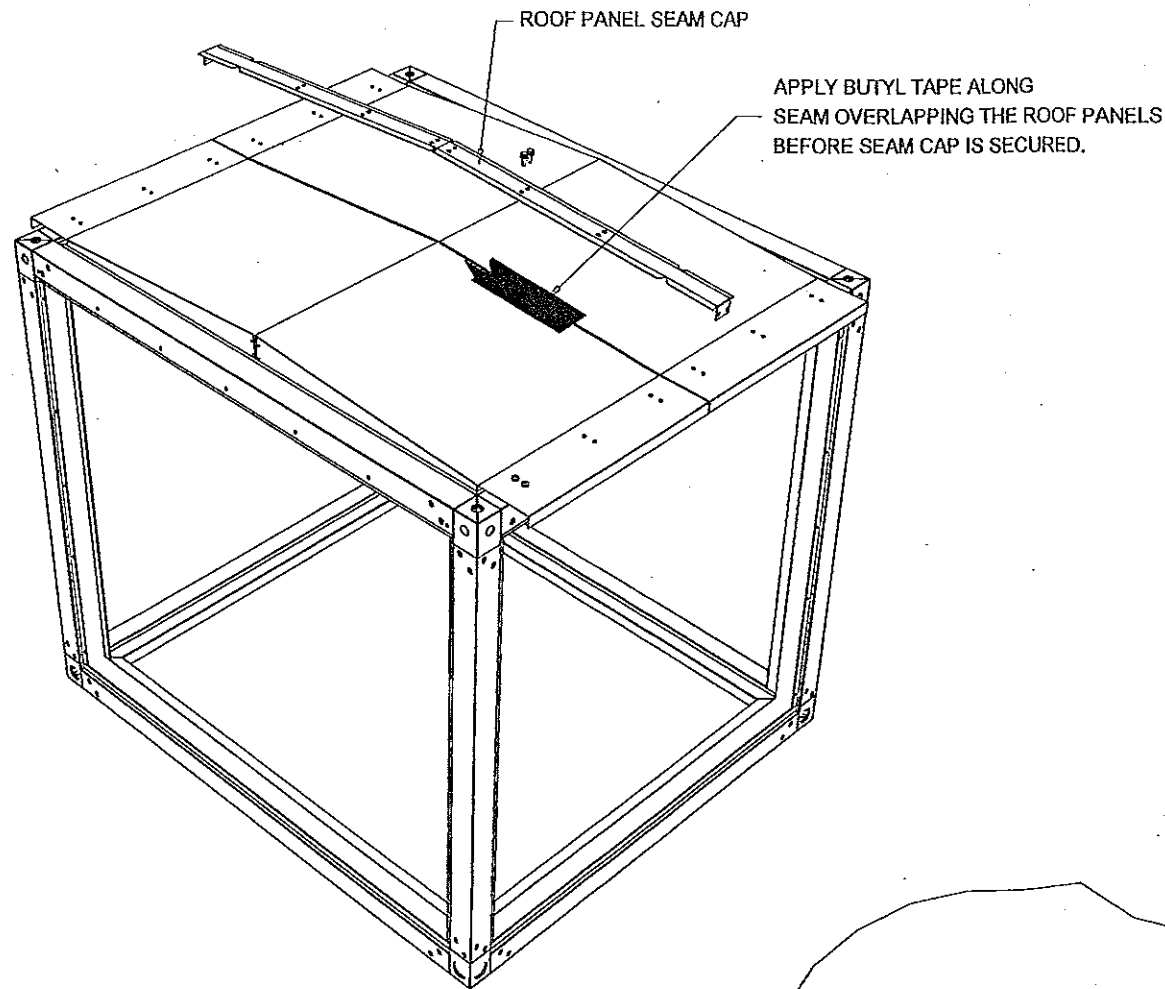
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COOLER 06-071C

SOLUTION XT ROOFTOP AIR HANDLING UNIT
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15901 S.W. 29TH STREET, SUITE 801
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revisions:

no	date	by	description
A	07.06.07		MANUF. NAME REV.
B	03.03.09		NO CHANGE THIS SHEET
C	01.20.12		NO CHANGE THIS SHEET

date: 08-03-06	scale: 1/4"=1'-0"	dr. by: HAMID	chk. by:
drawing no. 06-07		sheet 2 of 17	



AFTER BUTYL TAPE IS APPLIED AS SHOWN ABOVE SECURE SEAM CAP AS SHOWN IN DETAIL F WITH SCREW, TEK, EPDM, PLTD, 0.25-14 X 1". ALONG TOP AND INTO SIDE AS WELL.

STANDARD METAL THICKNESS		
METAL GAGE	MIN. THICKNESS (IN.)	YIELD STRENGTH MINIMUM (KSI)
8	0.157	33.0
10	0.126	33.0
12	0.097	33.0
14	0.070	45.0
16	0.056	45.0
18	0.045	45.0
20	0.034	45.0

DETAIL F

ROOF SEAM
CAP ASSEMBLY
OPTION #1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 28 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0215.07
Expiration Date 12/09/2014
By *[Signature]*
Miami Dade Product Control

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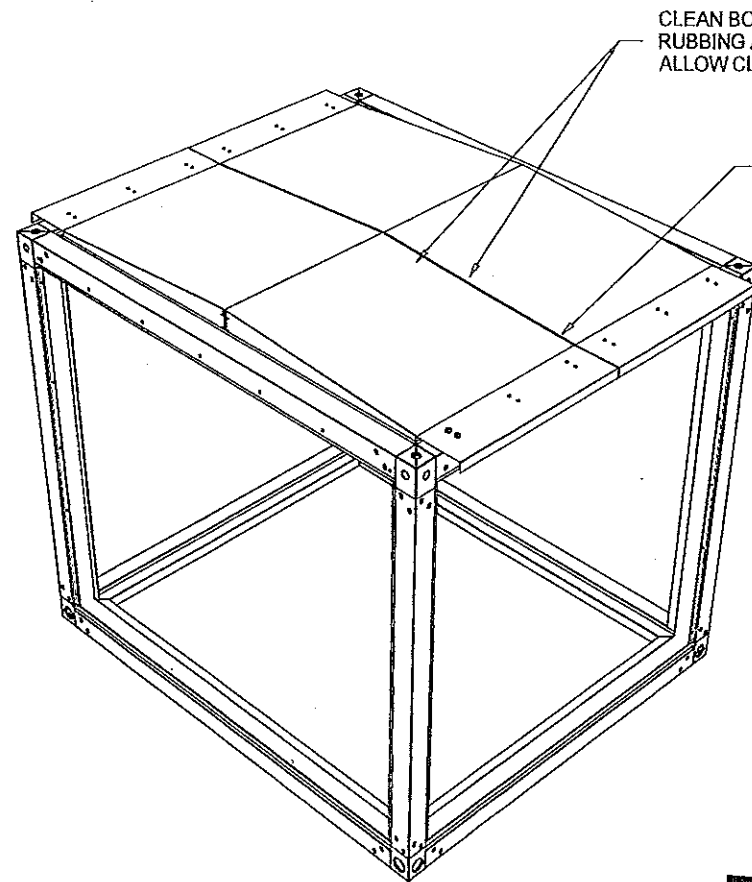
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revisions:	no	date	description	by
	A	07.06.07	MANUF. NAME REV.	
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date:	08-03-06
scale:	1/4"=1'-0"
dr. by:	HAMID
chk. by:	

drawing no.
06-07

sheet 3 of 17

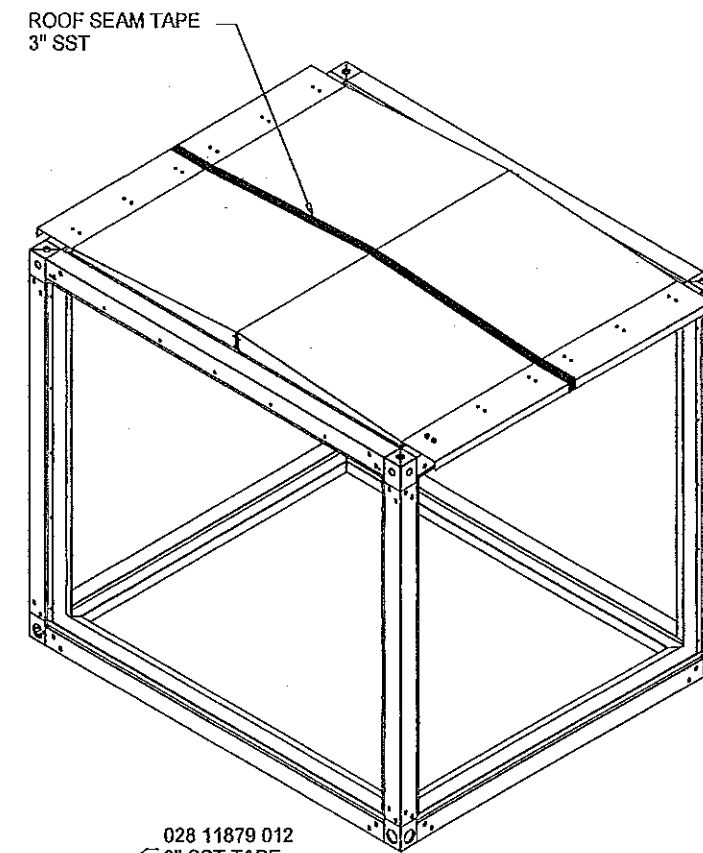


CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING ALCOHOL WATER MIX OR EQUAL. ALLOW CLEANED AREA TO DRY

CAULK SEAM BETWEEN ALL OUTDOOR ROOF PANELS WITH 013-03317-010 OR EQUAL

OVERLAP SEAM TAPE 1"-2" AS NEEDED.

KEEP OVERLAP NO CLOSER THAN 6" FROM END OF SEAM.



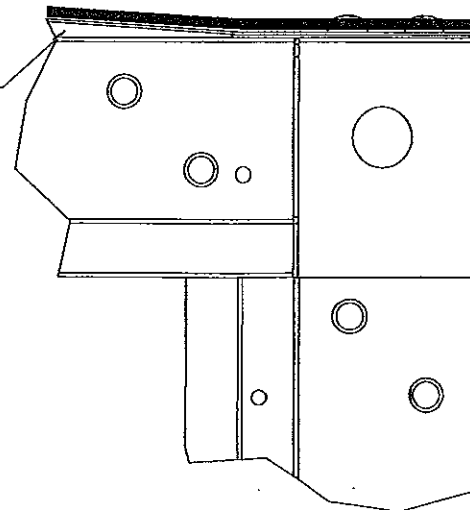
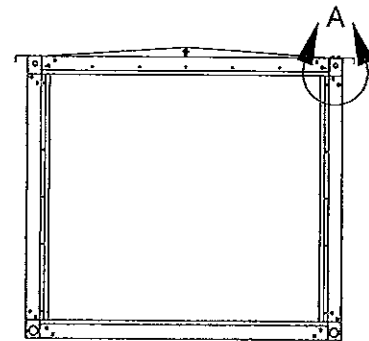
ROOF SEAM TAPE 3" SST

DO NOT OVERLAP SEAM TAPE CLOSER THAN 6" FROM EDGE OF SEAM

028 11879 012 3" SST TAPE

OUTDOOR ROOF PANEL

WRAP TAPE AROUND ROOF PANEL FLANGE



DETAIL A

ROOF SEAM
TAPE ASSEMBLY
OPTION #2

STANDARD METAL THICKNESS		
METAL GAGE	MIN. THICKNESS (IN.)	YIELD STRENGTH MINIMUM (KSI)
8	0.157	33.0
10	0.126	33.0
12	0.097	33.0
14	0.070	45.0
16	0.056	45.0
18	0.045	45.0
20	0.034	45.0

PRODUCT REVISED
as complying with the Florida
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Acceptance No 12-0215.07
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By Healy A. M. M.
Miami Dade Product Control

PRODUCT RENEWED
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By Healy A. M. M.
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Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
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AUG 28 2012

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COOLER 06-07YIC

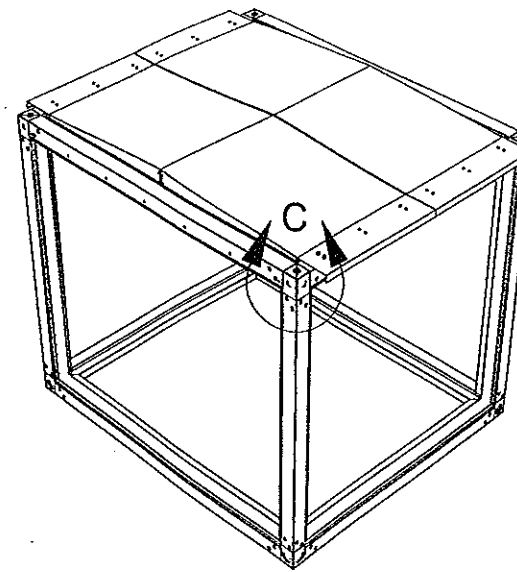
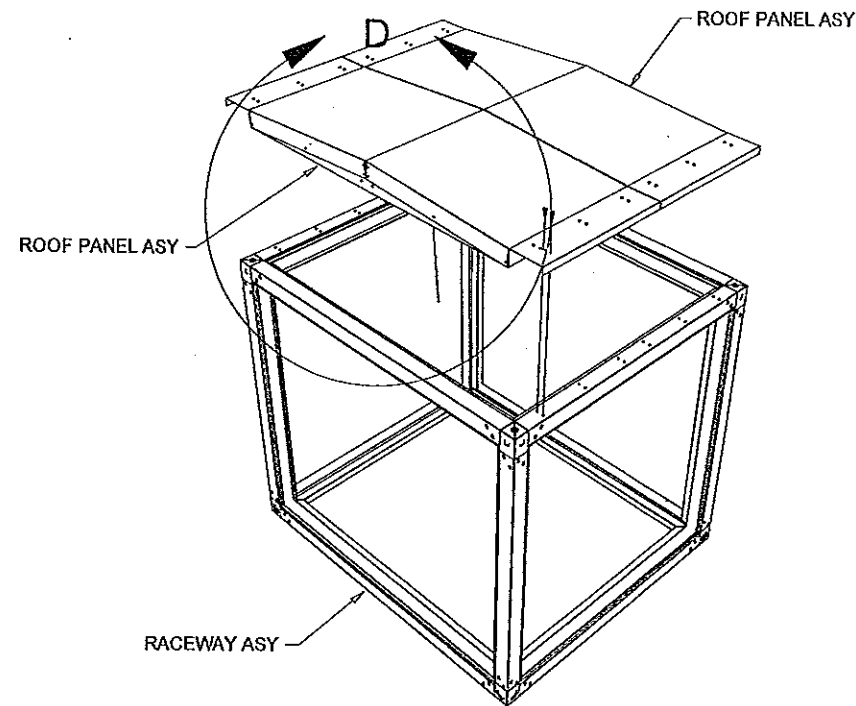
SOLUTION XT ROOFTOP AIR HANDLING UNIT
YORK/JOHNSON CONTROLS INC.
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MIRAMAR, FL. 33027
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no	date	by	description
A	07.06.07	MANUF. NAME REV.	
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C	01.20.12	NO CHANGE THIS SHEET	

date: 08-03-06	scale: -	dr. by: HAMID	chk. by:
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drawing no.
06-07

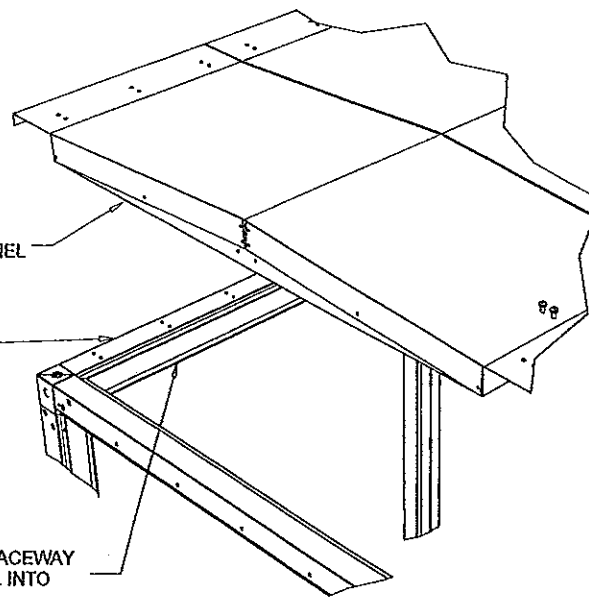
sheet 4 of 17



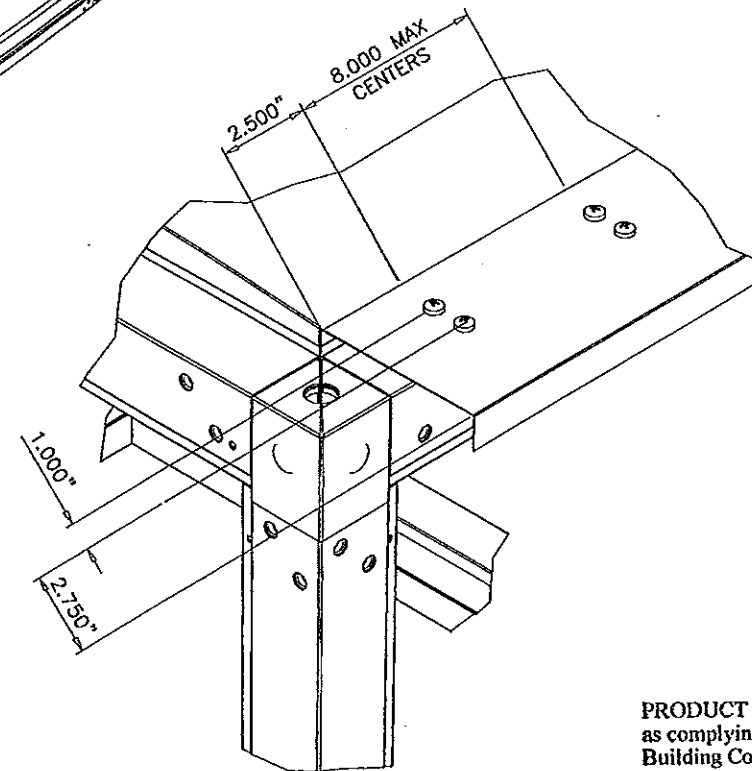
APPLY NEOPRENE 028-11867-000 TO BOTH SIDES OF ROOF PANEL ASY BEFORE PLACING ROOF PANEL IN RACEWAY ASY.

APPLY BUTYL TAPE 013-02977-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.

APPLY BUTYL TAPE 013-02976-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.



DETAIL D



DETAIL C

AFTER APPLYING NEOPRENE AND BUTYL TAPE AS SHOWN IN DETAIL D, PLACE ROOF PANEL INTO RACEWAY ASY AND SECURE AS SHOWN IN DETAIL C USING SCREW TAP TY A PH 14-10 1/4 X 3/4 PAN HEAD PHILLIPS (#1), TYPE A, ZINC PLATED

ROOF PANEL
ASSEMBLY

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

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1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

af c
COOLER\06-07YC

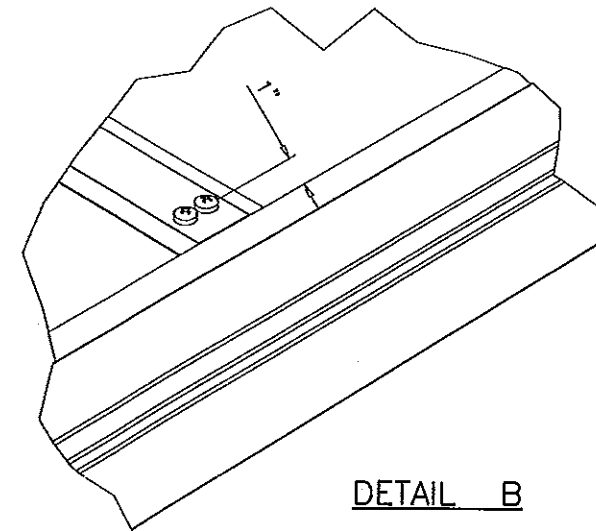
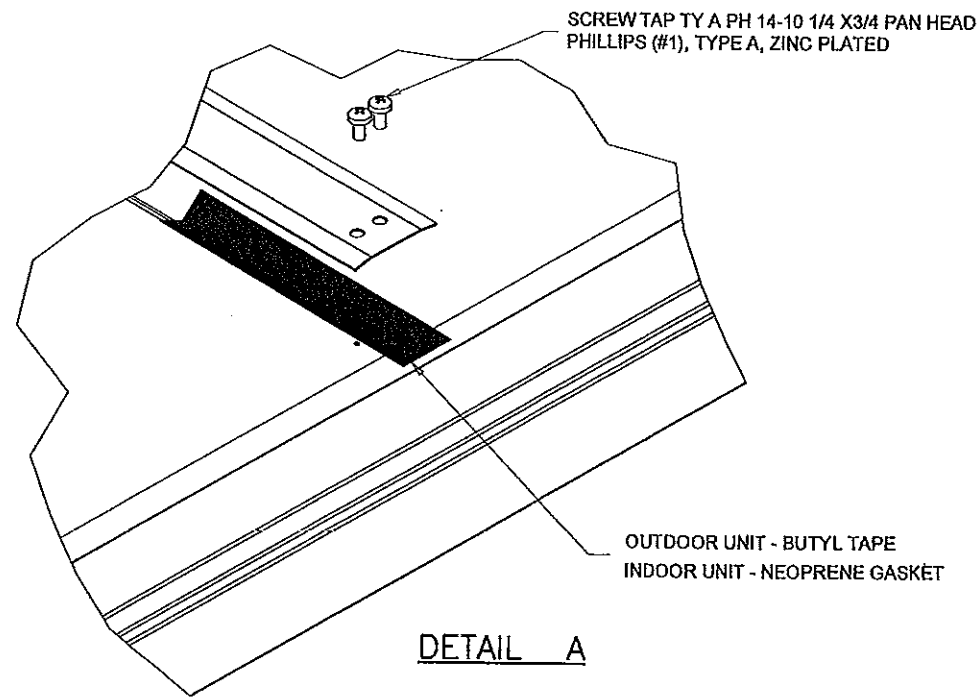
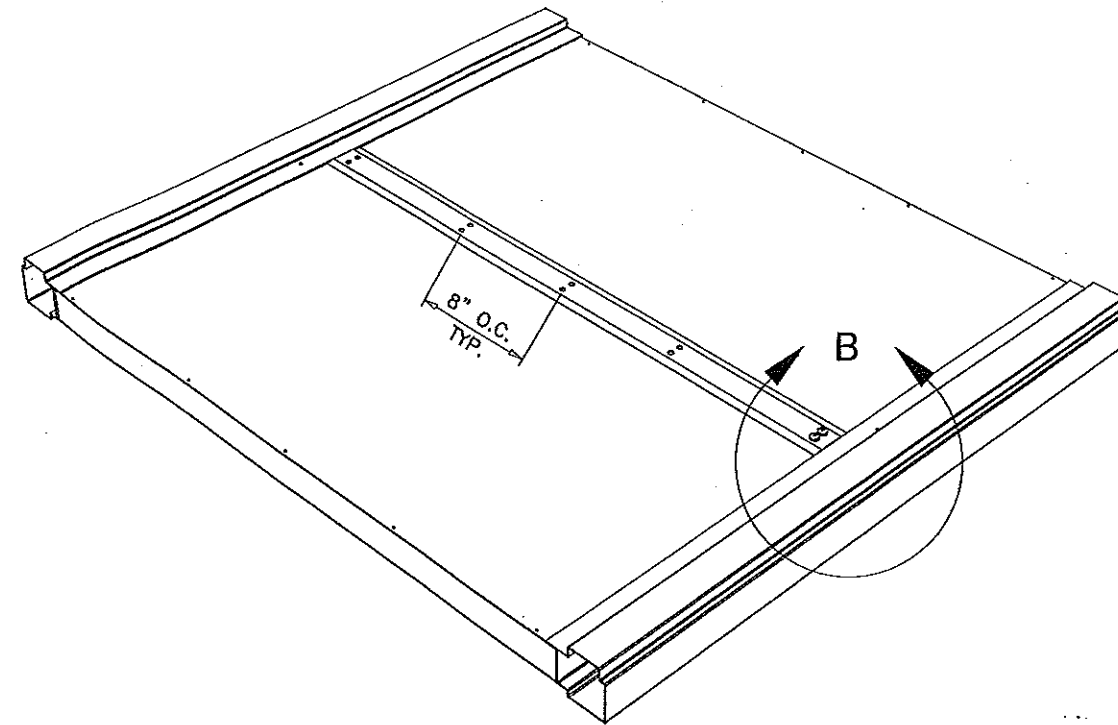
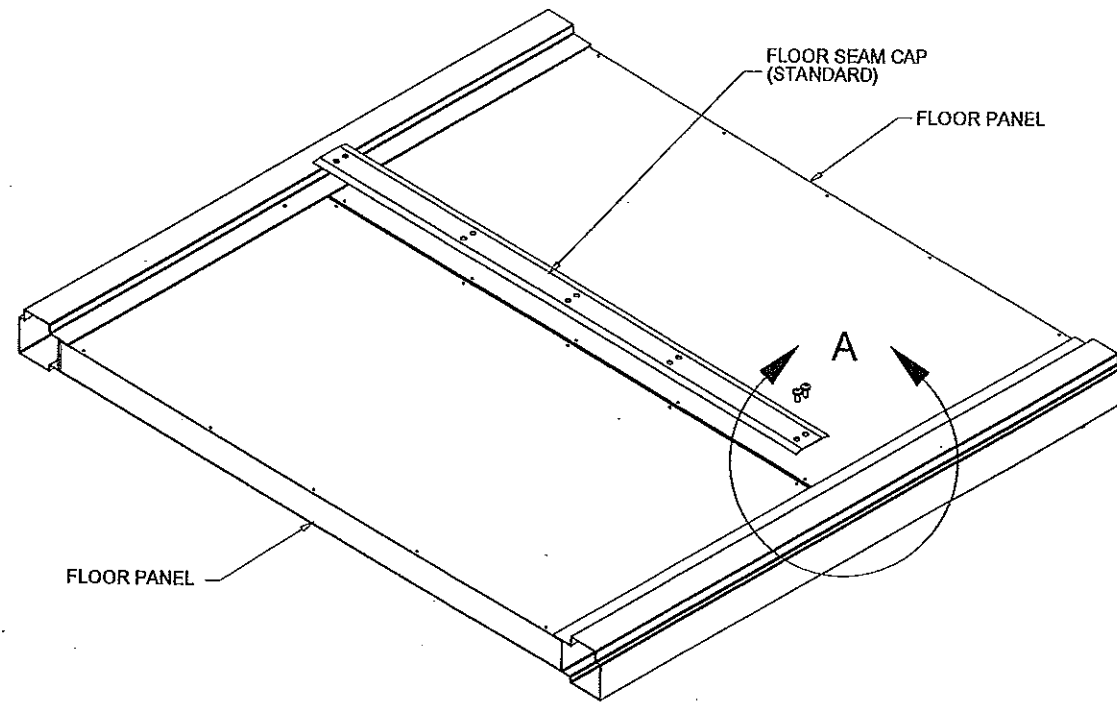
SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
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date: 08-03-06
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dr. by: HAMID
chk. by:

drawing no.
06-07
sheet 5 of 17



STANDARD FLOOR PANEL SEAM CAP ASY
APPLY GASKET / BUTYL TAPE ALONG FLOOR PANEL SEAM BEFORE SECURING FLOOR PANEL SEAM CAP WITH SCREWS LISTED IN DETAIL A.

FLOOR SEAM CAP
MOUNTING DETAIL
OPTION #1

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

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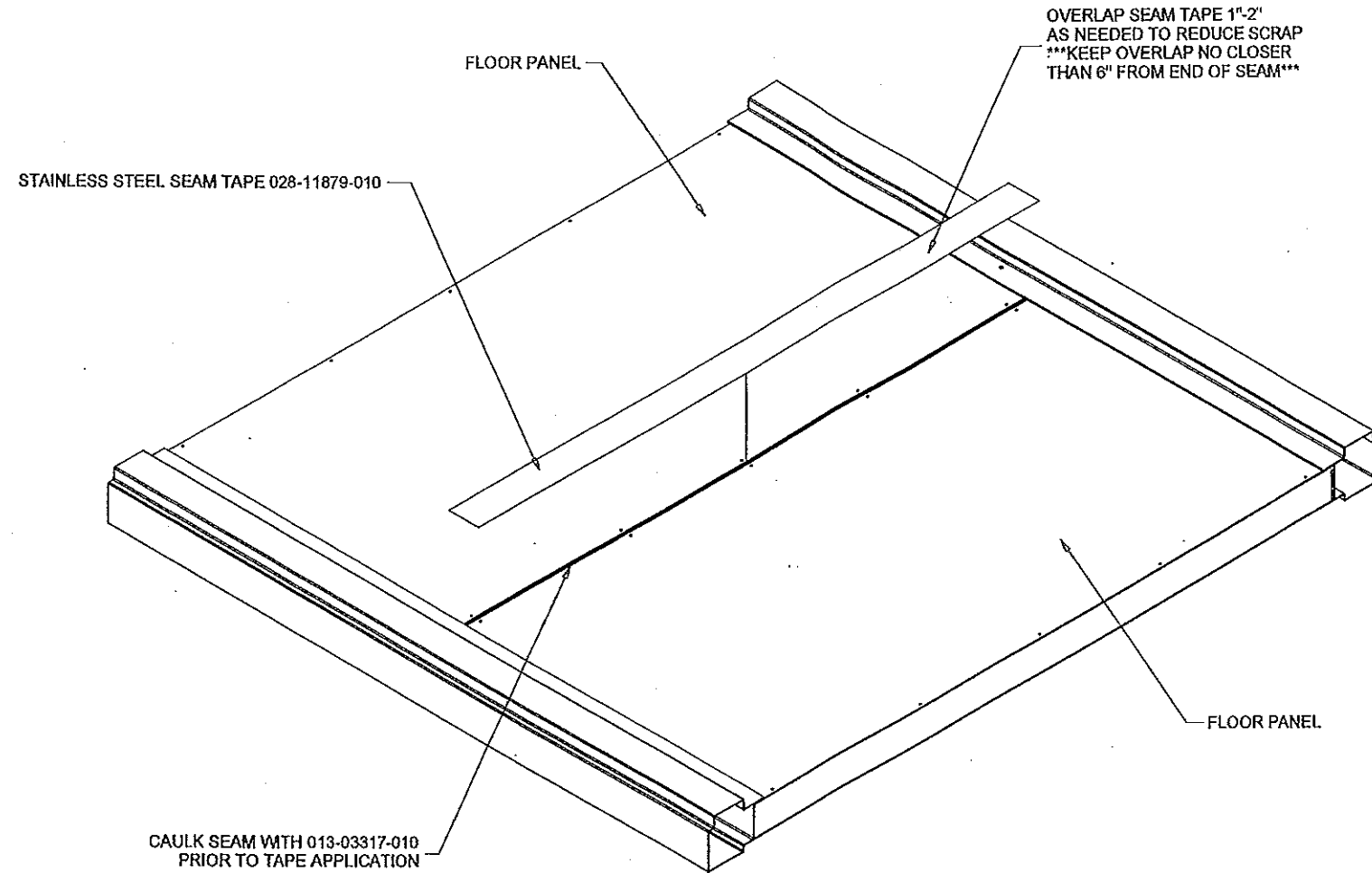
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chk. by:	

drawing no.	06-07
sheet	6 of 17



OVERLAP SEAM TAPE 1"-2"
AS NEEDED TO REDUCE SCRAP
***KEEP OVERLAP NO CLOSER
THAN 6" FROM END OF SEAM***

CAULK SEAM WITH 013-03317-010
PRIOR TO TAPE APPLICATION

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STANDARD FLOOR PANEL SEAM TAPE APPLICATION
THIS APPLIES FOR BOTH XTI & XTO UNITS.
CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING
ALCOHOL WATER MIX OR EQUAL. ALLOW TO DRY.
CAULK ALONG FLOOR PANEL SEAM.
APPLY SEAM TAPE EVENLY ALONG ENTIRE FLOOR
PANEL SEAM.

**FLOOR SEAM TAPE
ASSEMBLY
OPTION #2**

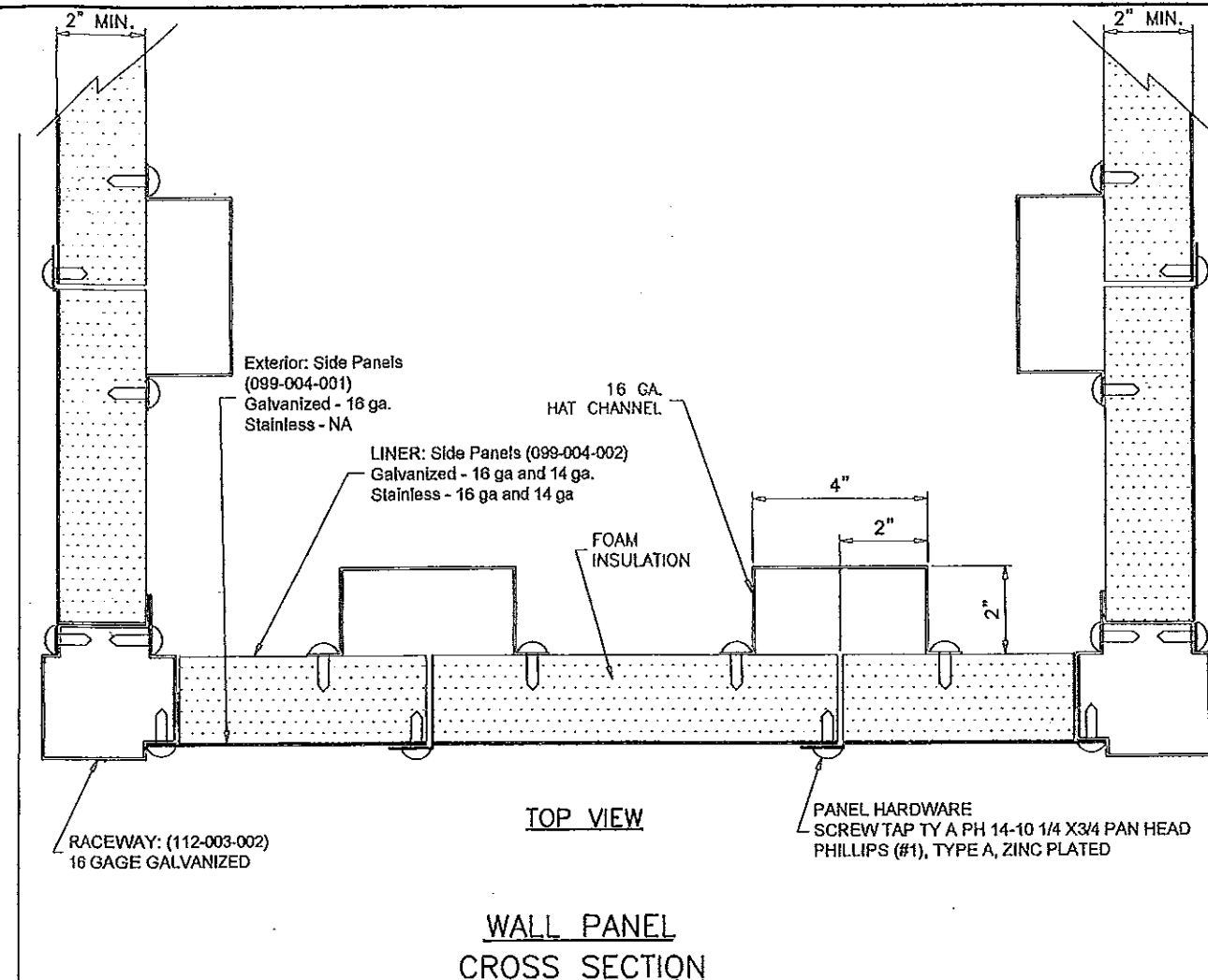
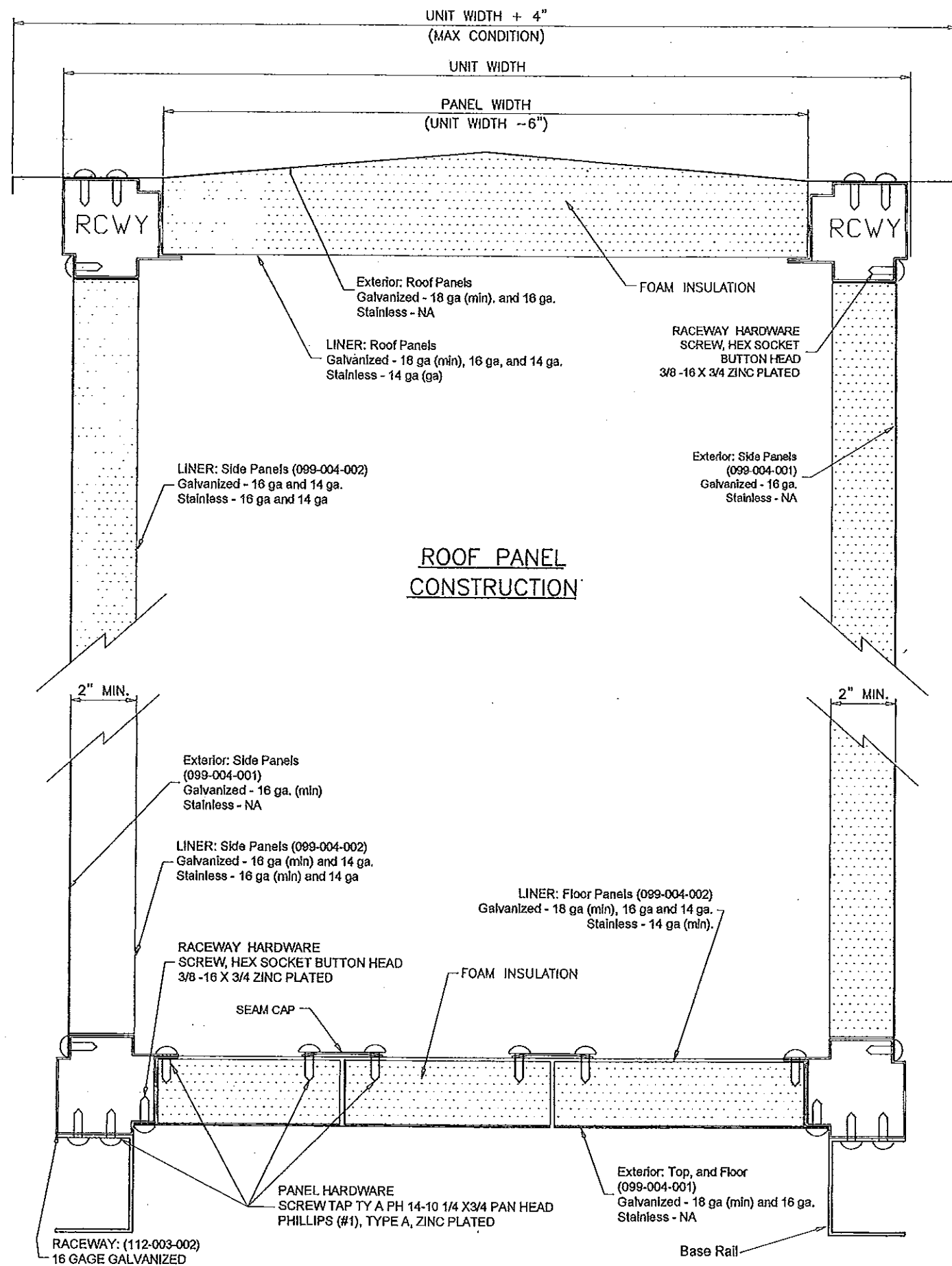
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FLA. PE # 70592
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		date: 08-03-06 scale: - dr. by: HAMID chk. by:	
drawing no. 06-07		sheet 7 of 17	

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Notes:

1. Roof panels, floor panels, and wall panels are 2.00" thick double wall construction. Exterior roof and floor panel construction of 18 gage (min) galvanized steel and 16 gage (min) for wall panels. The interior liner shall be constructed of 18 gage (min) for roof and floor panels and 16 gage (min) for walls.
2. Access doors are 2.00" thick, double-wall construction, of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws.
3. Insulation is spray injected closed-cell foam.

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FLA. PE # 70592
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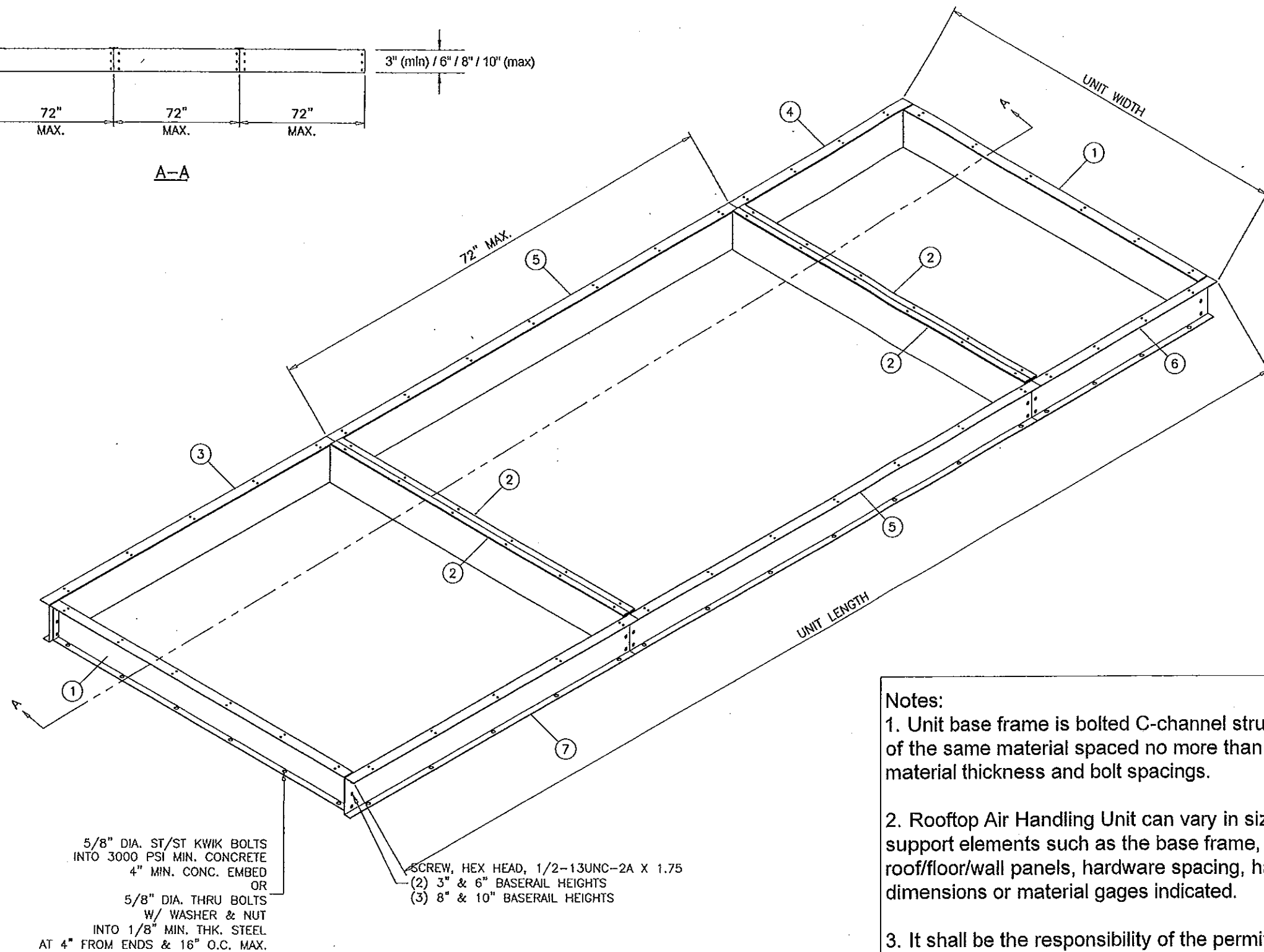
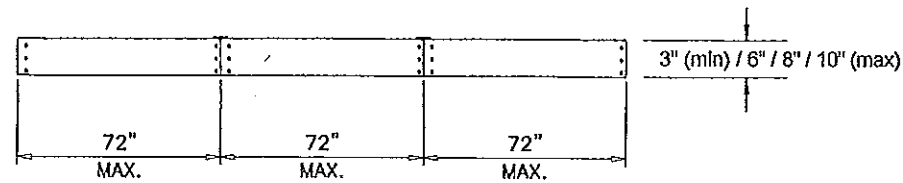
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SOLUTION XT ROOFTOP AIR HANDLING UNIT
YORK/JOHNSON CONTROLS INC.
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TEL. (954) 389-9675 FAX. (954) 389-9687

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chk. by:

drawing no.
06-07
sheet 8 of 17



NOTE:
VERIFY CABLE LOCATION BEFORE DRILLING
IF ROOF IS POST TENSION CONCRETE SLAB.

Parts List		
ITEM	QTY	DESCRIPTION
1	2	BASERAIL END XTI GALV
2	4	BASERAIL INT XTI GALV
3	1	BASERAIL DOA FIA GALV
4	1	BASERAIL DOA LIA GALV
5	2	BASERAIL DOA MIA GALV
6	1	BASERAIL DOA FIA GALV
7	1	BASERAIL DOA LIA GALV

Notes:

1. Unit base frame is bolted C-channel structural steel with c-channel cross supports of the same material spaced no more than 72" apart. Refer to sheet 10 for material thickness and bolt spacings.

2. Rooftop Air Handling Unit can vary in size however, spacing of the structural support elements such as the base frame, internal hat channels, raceways, roof/floor/wall panels, hardware spacing, hardware sizes, shall not exceed the dimensions or material gages indicated.

3. It shall be the responsibility of the permit holder to verify the structural integrity of the existing structure to support the loads superimposed by the Rooftop Air Handling Unit.

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SOLUTION XT
BASERAIL ASSEMBLY

Engr: JAVAD AHMAD
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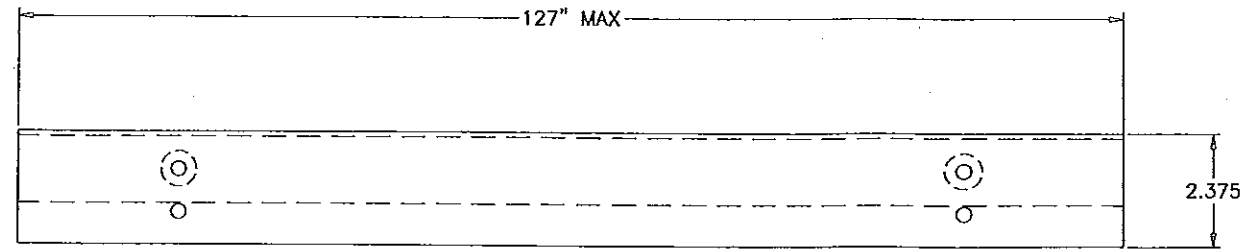
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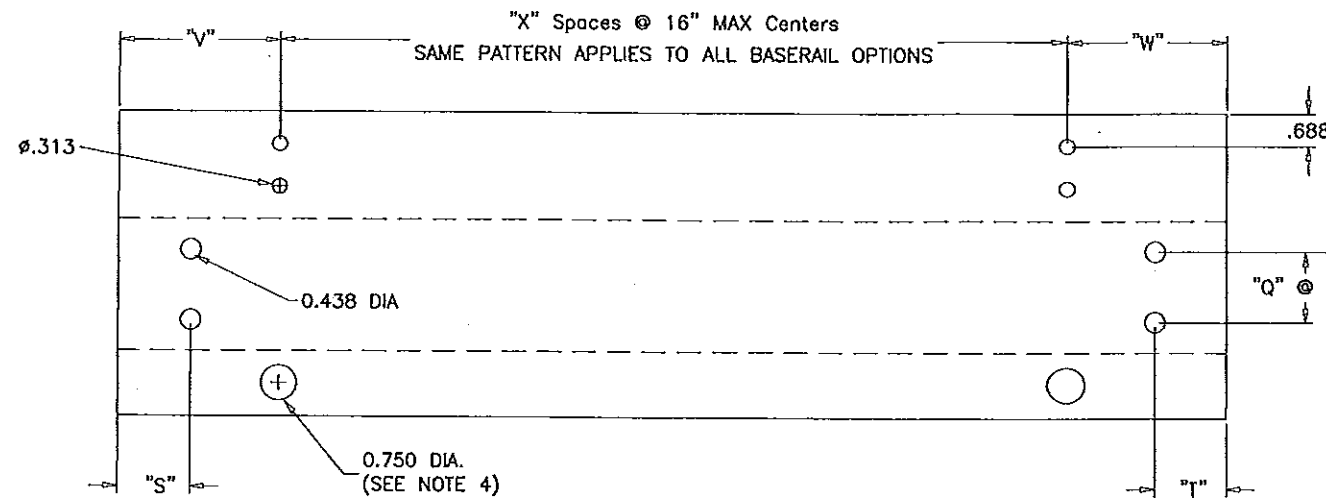
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06-07
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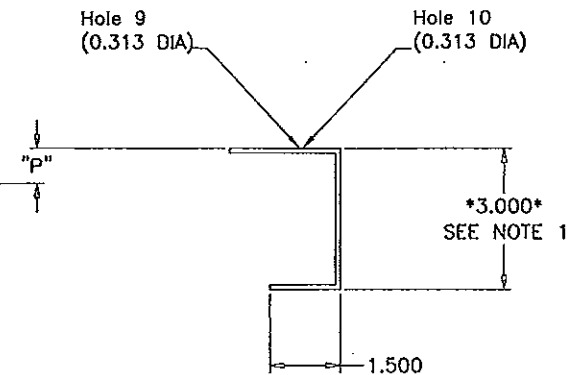
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FORMED TOP VIEW



FLAT VIEW



FORMED SIDE VIEW

5/8" DIA. HOLES USED WITH 1/4" SCREWS TO ATTACH BASERAIL TO UNIT RACEWAY.
3/4" DIA. HOLES USED WITH 5/8" BOLTS TO ATTACH BASERAIL TO DUNAGE STEEL OR CONC. SLAB.
SEE SHEET 11 FOR BASERAIL USED FOR ROOF CURB.

- NOTES:
- 1) BASERAIL OPTION HEIGHTS 3", 6", 8", 10"
 - 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
 - 3) BASERAIL GAGES AS FOLLOWS - 3" = 12 GAGE GALV
6" = 10 GAGE GALV
8" = 10 GAGE GALV
10" = 8 GAGE GALV
 - 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

Baserail Height	"P"	"Q" SPACES	"R"	BASERAIL LOCATION	"S"	"T"	"V"	"W"
3	.875	1	1.250	LIA	.941	1.781	3.153	5.403
6	1.657	1	2.687	MIA	.941	.941	3.153	3.153
8	1.657	2	2.687	FIA	1.781	.941	5.403	3.153
10	1.657	2	2.687	FULL	1.781	1.781	5.403	5.403

BASERAIL
DIMENSIONS

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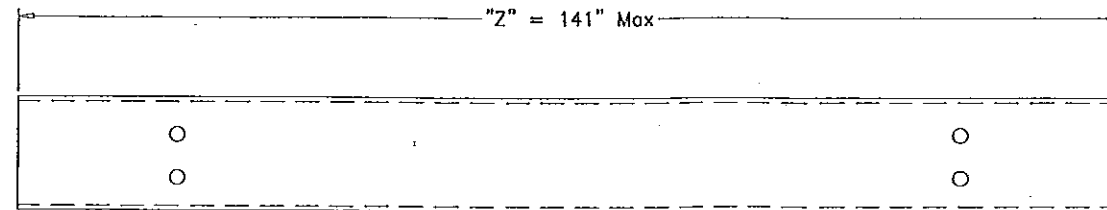
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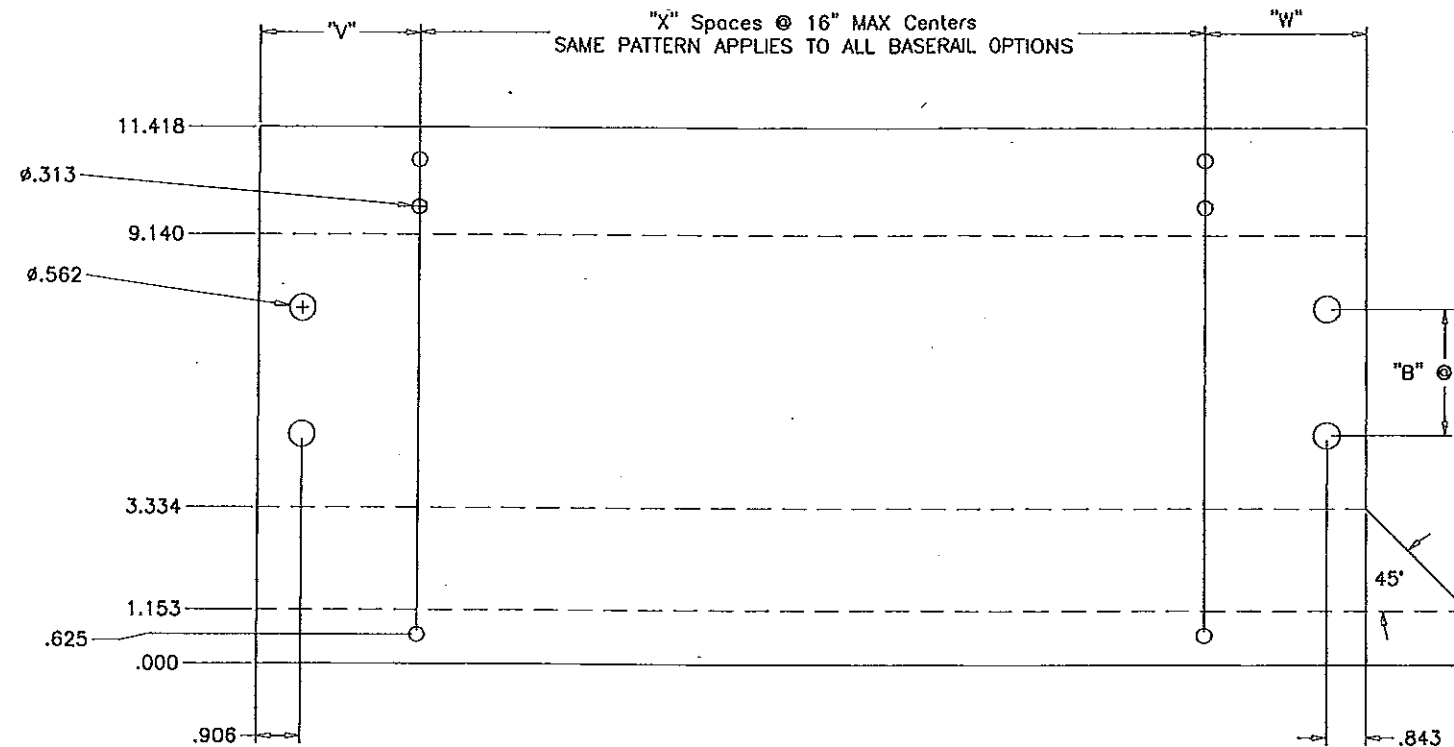
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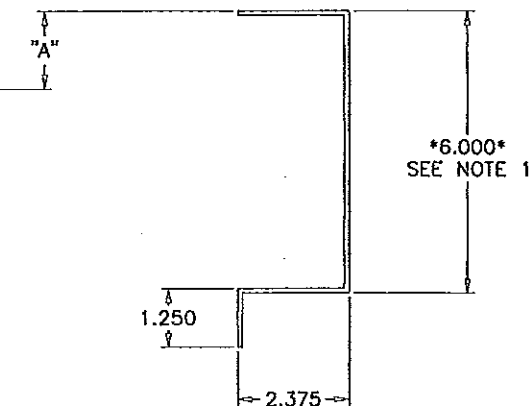
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drawing no.
06-07
sheet 10 of 17



FORMED TOP VIEW



FLAT VIEW



FORMED SIDE VIEW

CALCULATION CHART AND DATA			
VERTICAL HOLE DATA			
BASERAIL HEIGHT	"A"	"B" SPACES	"C"
6"	1.657	1	2.687
8"	1.657	2	2.687
10"	1.657	2	2.687

NOTES:

- 1) BASERAIL OPTION HEIGHTS 6", 8", 10"
- 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
- 3) BASERAIL GAGES AS FOLLOWS - 6" = 10 GAGE GALV
8" = 10 GAGE GALV
10" = 8 GAGE GALV
- 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

Baserail Location	"V"	"W"	"Z"	"X"
FIA	"C"	3.153	3.028	=SUM OF SECTION LENGTHS + 3.063 (<=141")
				=ROUNDUP((Z-V-W)/16")

**BASERAIL
DIMENSIONS
FOR USE W/ ROOF CURB**

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

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06-07
sheet 11 of 17

125 5/8"

127 1/8"

2"

SIDE VIEW

4"-8" TYP. 4" MAX.

3/8" 2 3/16" 4" MAX.

45" MAX.

FRONT VIEW

SOLUTION XT-45W
WALL PANEL ASSY.

OUTER 16 GA. LINER 16 GA.

ISOMETRIC VIEW

NOTE: SCREW SPACING AND
LOCATIONS ARE INDICATED.
REFER TO OTHER DRAWINGS
FOR SCREW SIZES

125 5/8"

127 1/8"

2"

SIDE VIEW

8"-16" TYP. 8" MAX.

3/8" 2 3/16" 8" MAX.

45" MAX.

FRONT VIEW

SOLUTION XT-45W
FLR/ROOF PANEL ASSY.

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TOP VIEW

OUTER 18 GA. LINER 18 GA.

8"-16" TYP.

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ISOMETRIC VIEW

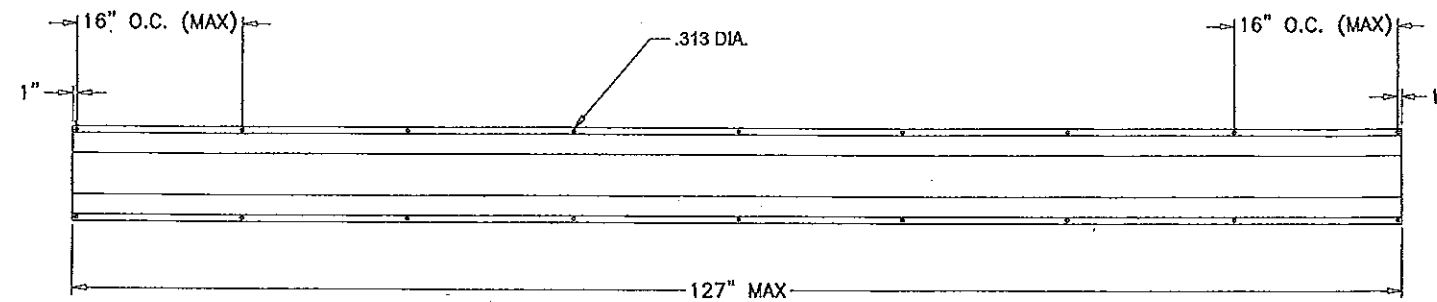
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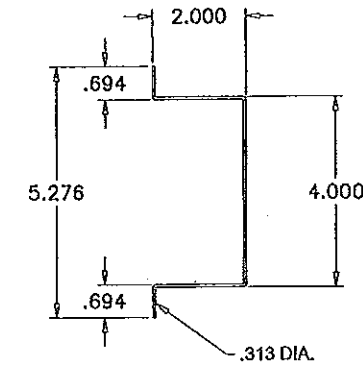
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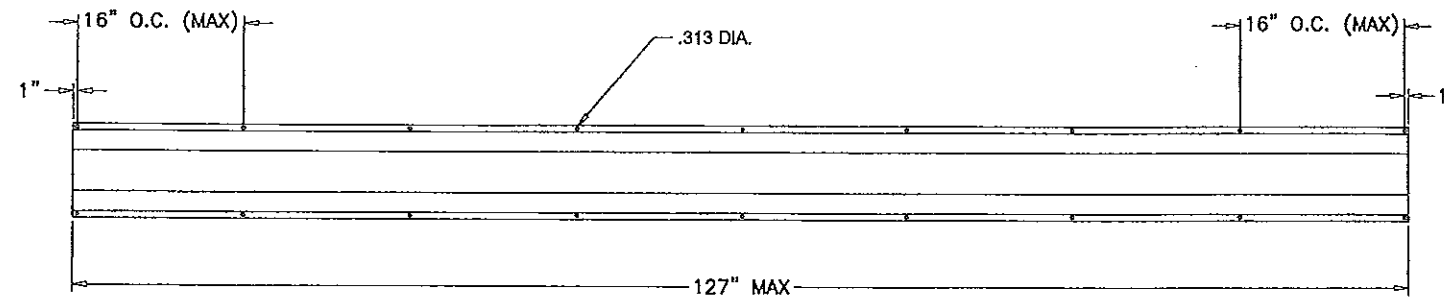
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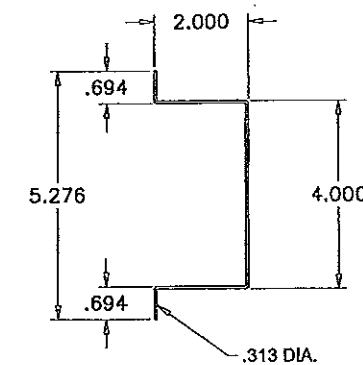
FORMED SIDE VIEW

- NOTES:
1. Internal steel hat channel supports shall be 16 gage minimum thickness galvanized steel.
 2. The maximum spacing for the internal supports shall be 36" O.C. and maximum length shall not exceed 127'.
 3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

SIDE WALL SUPPORTS
SOLUTION XT-HAT CHANNEL



FLAT VIEW



FORMED SIDE VIEW

- NOTES:
1. Internal steel hat channel supports shall be 12 gage minimum thickness galvanized steel.
 2. The maximum spacing for the internal supports shall be 37" O.C. and maximum length shall not exceed 127'.
 3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

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END WALL SUPPORTS
SOLUTION XT-HAT CHANNEL

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FLA. PE # 70592
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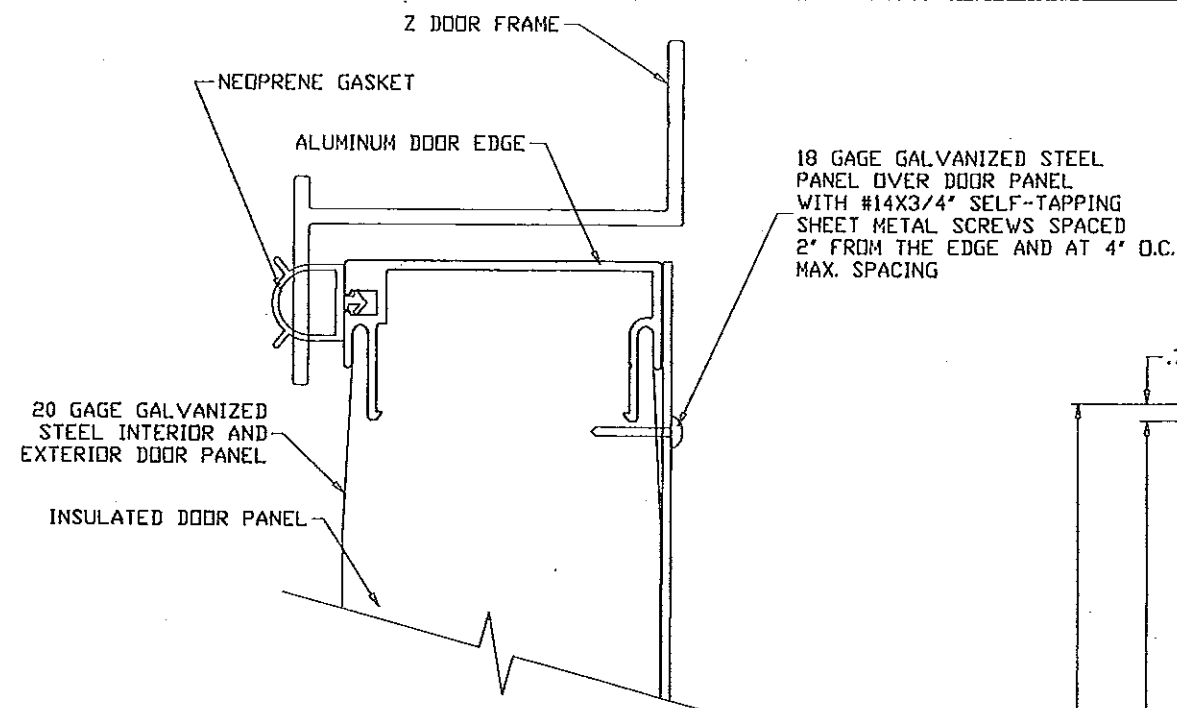
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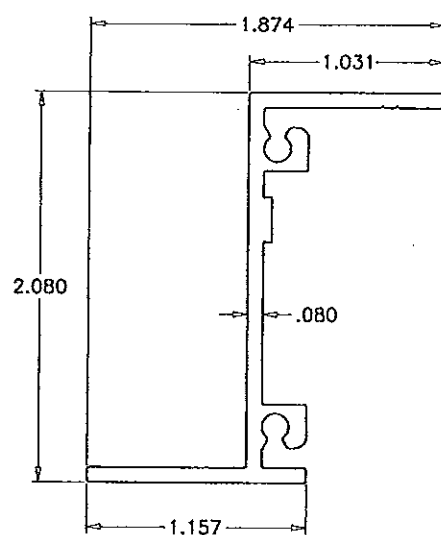
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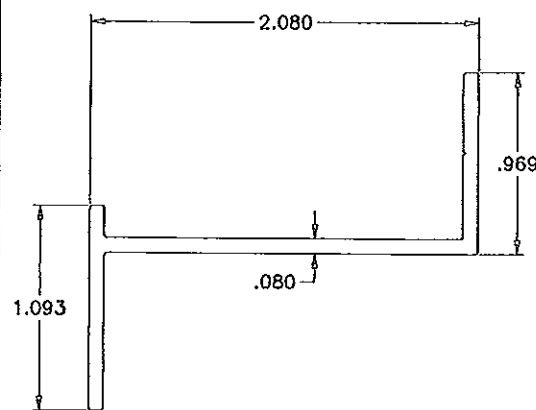
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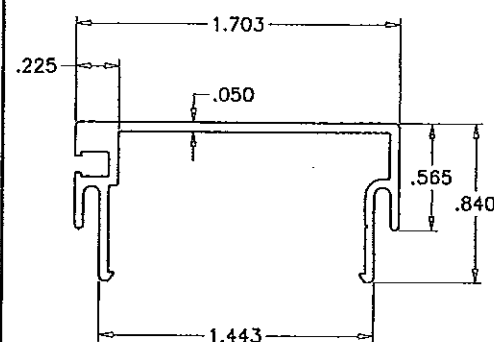
ENLARGED DOOR EDGE DETAIL



NON THERMAL VERTICAL
Z FRAME



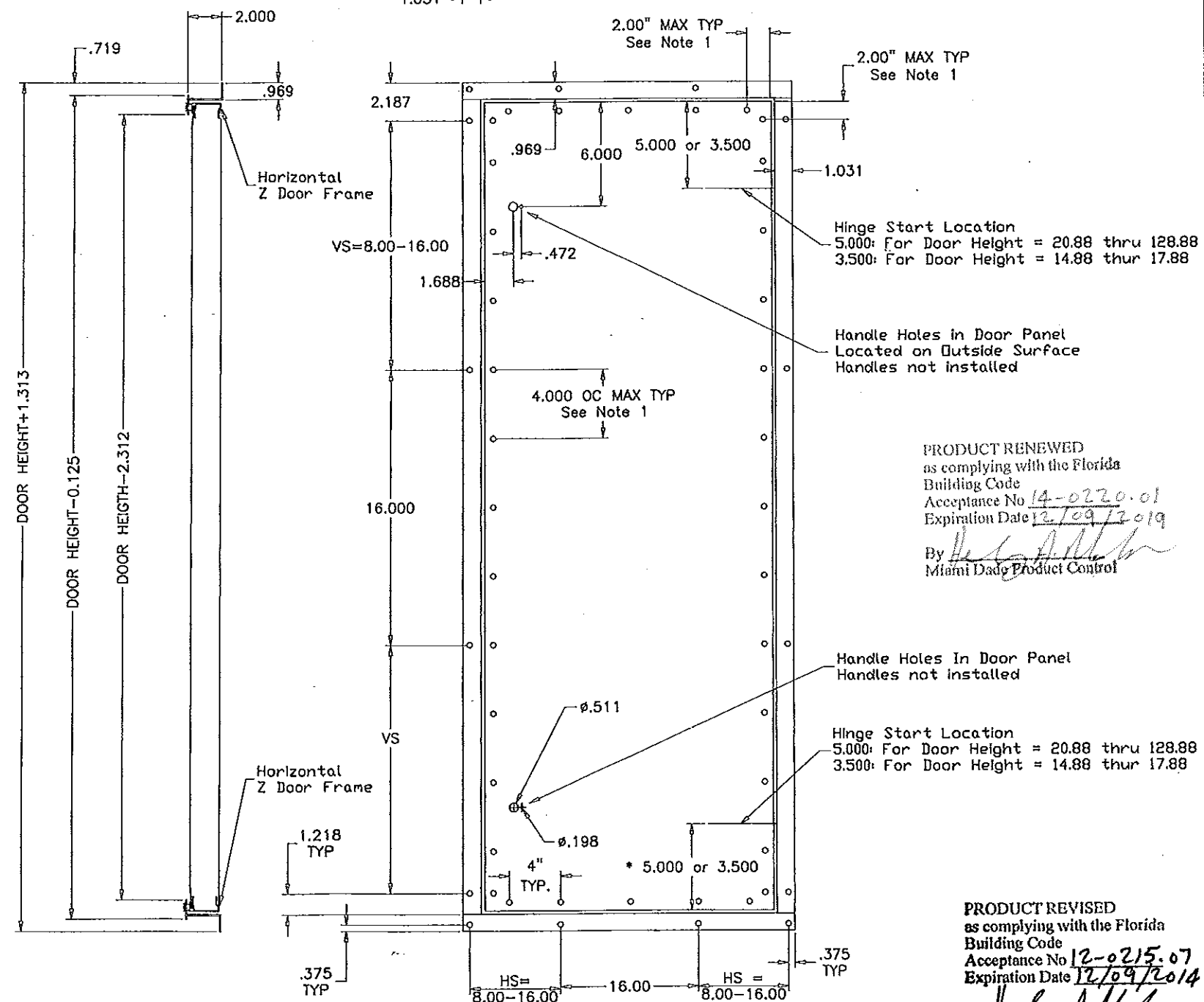
NON THERMAL HORIZONTAL
Z FRAME



NON THERMAL DOOR PANEL
EDGE EXTRUSION

NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125
PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:
1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage steel exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws spaced 2" from the edge and at 4" O.C.



SOLUTION XT
ACCESS DOOR
OPTION #1

Engr: JAVAD AHMAD
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FLA. PE # 70592
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Handle Holes in Door Panel
Handles not installed

Hinge Start Location
5.000: For Door Height = 20.88 thru 128.88
3.500: For Door Height = 14.88 thru 17.88

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Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COOLER 06-071C

SOLUTION XT ROOFTOP AIR HANDLING UNIT
YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL (954) 389-9675 FAX (954) 389-9687

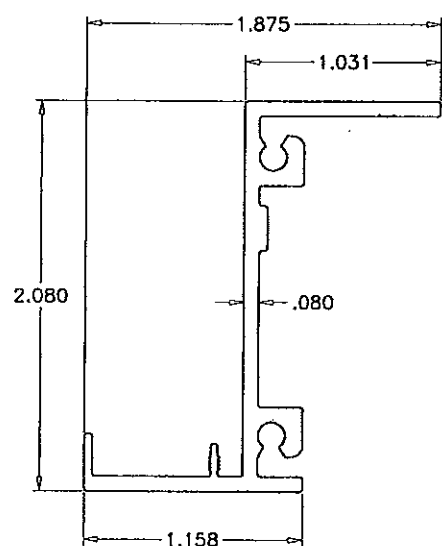
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	B	03.03.09	NO CHANGE THIS SHEET	
	C	01.20.12	NO CHANGE THIS SHEET	

date: 08-03-06
scale: 1/8" = 1"
dr. by: HAMID
chk. by:
drawing no.
06-07
Sheet 14 of 17

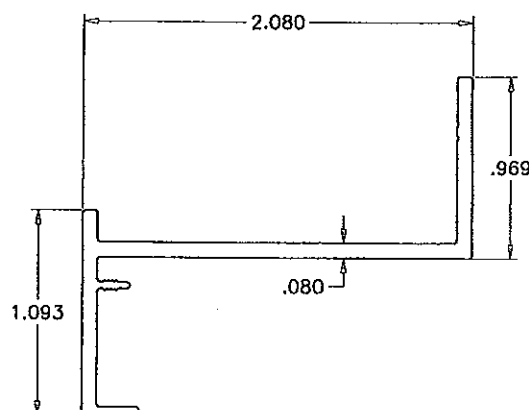
24 GAGE GALVANIZED
STEEL INTERIOR AND
EXTERIOR DOOR PANEL

INSULATED DOOR PANEL

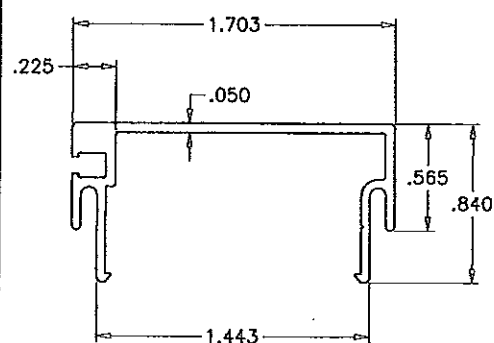
ENLARGED DOOR EDGE DETAIL



NON THERMAL VERTICAL
Z FRAME



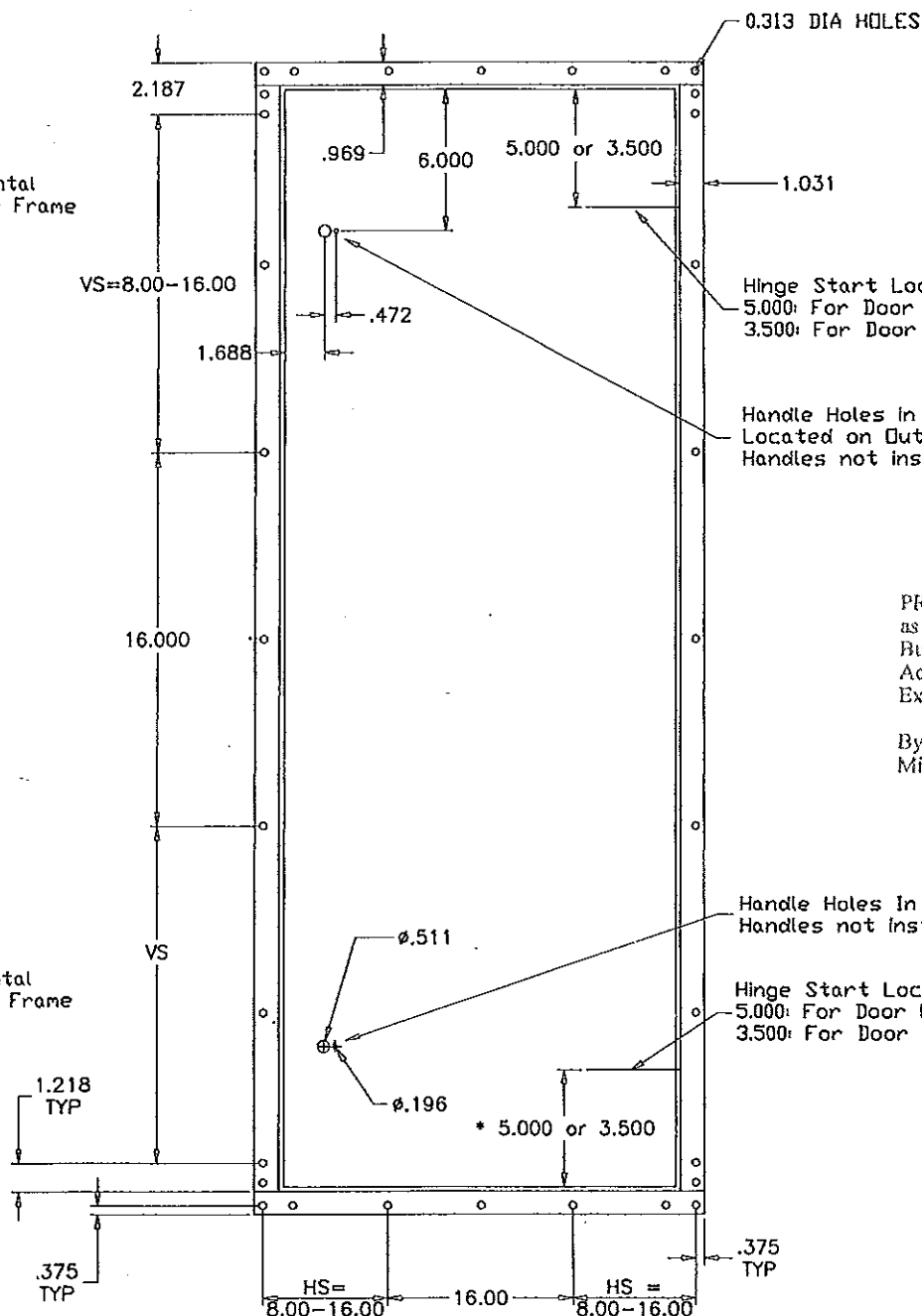
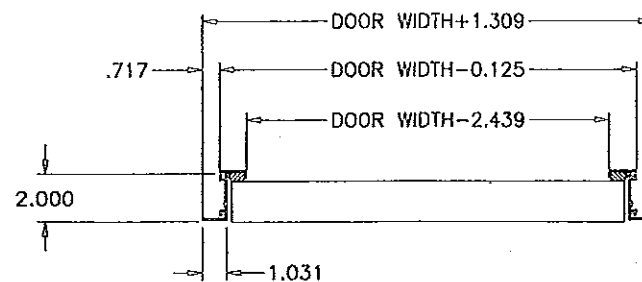
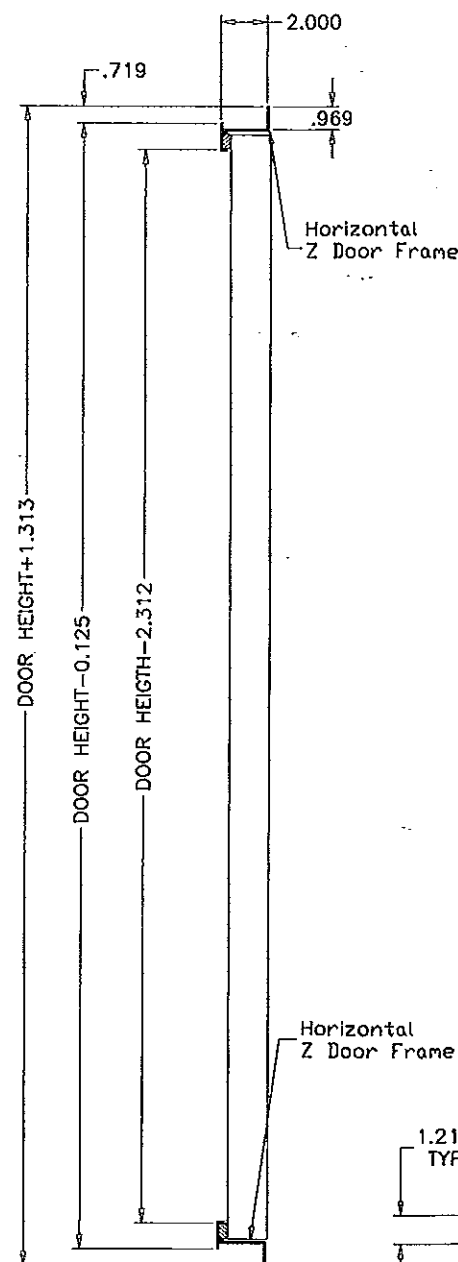
NON THERMAL HORIZONTAL
Z FRAME



NON THERMAL DOOR PANEL
EDGE EXTRUSION

NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125
PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:
1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 24 gage sheet steel.
2. View area not available on Doors used for NOA constursted units.
3. Door must show no water leakage at 6.0" W.C and no air leakage at negative 8.0" W.C



Hinge Start Location
5.000: For Door Height = 20.88 thru 128.88
3.500: For Door Height = 14.88 thru 17.88

Handle Holes in Door Panel
Located on Outside Surface
Handles not installed

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0220.01
Expiration Date 12/09/2019
By *Heidi A. Miller*
Miami Dade Product Control

Handle Holes in Door Panel
Handles not installed

Hinge Start Location
5.000: For Door Height = 20.88 thru 128.88
3.500: For Door Height = 14.88 thru 17.88

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0215.07
Expiration Date 12/09/2014
By *Heidi A. Miller*
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

SOLUTION XT
ACCESS DOOR
OPTION #2

APR 28 2012

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COOLER\06-07YIC

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

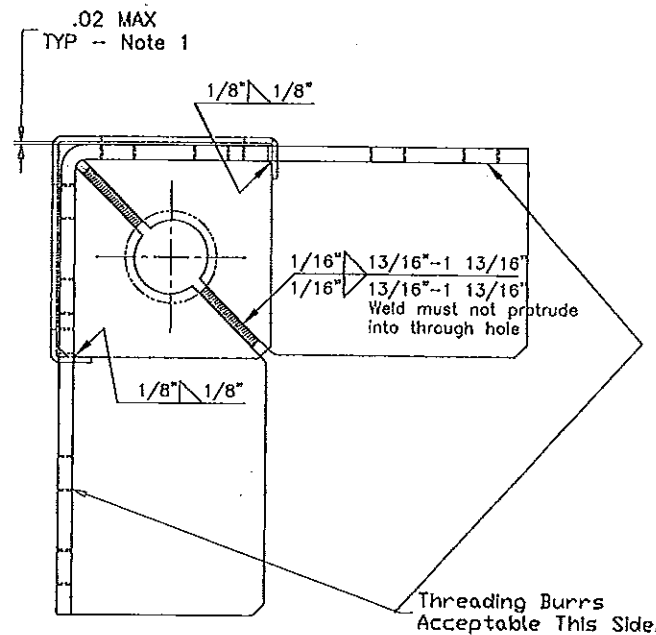
YORK/JOHNSON CONTROLS INC.
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MIRAMAR, FL. 33027
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Revisions:

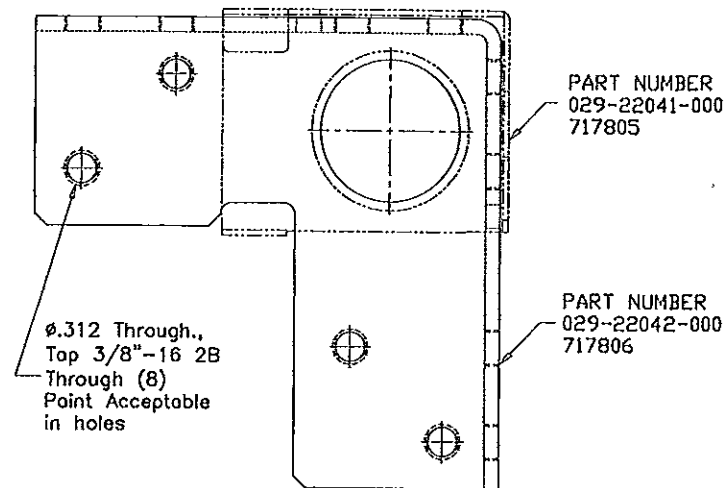
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chk. by:

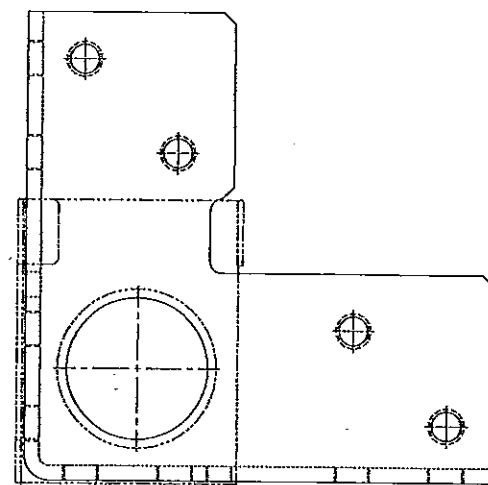
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06-07
sheet 15 of 17



TOP VIEW



EXTERIOR SIDE VIEW



INTERIOR SIDE VIEW

Notes:

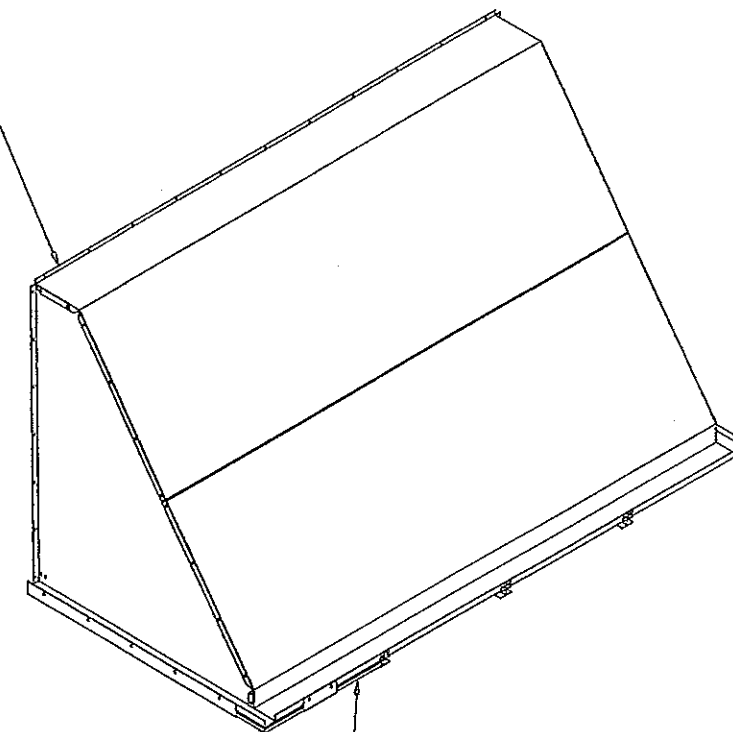
- 1) Gap can not accept 1/2" wide feeler stock.
- 2) Finish - Anodized Silver Powder Coat Paint.
- 3) Sub-component dimensions are prior to paint.
- 4) 8 gage stamped and formed galvanized steel corner

CORNER CONNECTOR

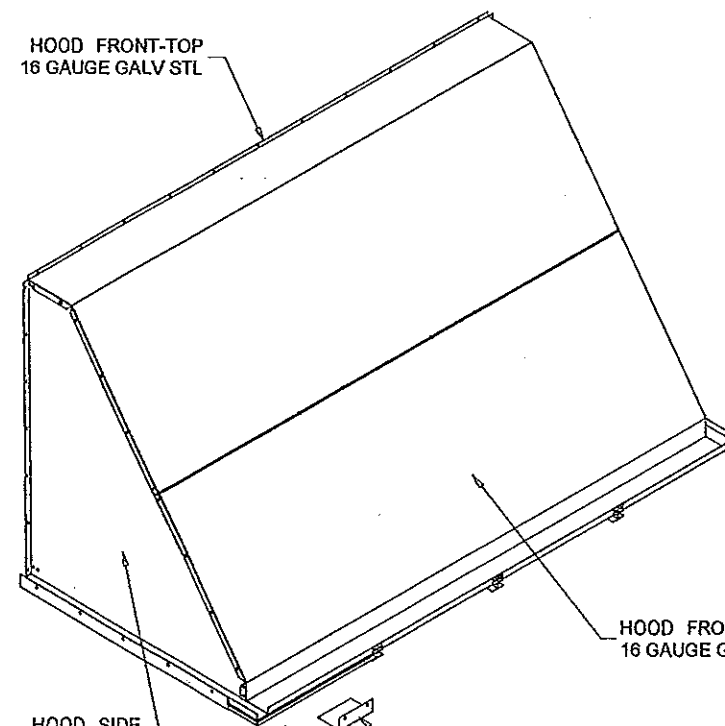
DETAIL

1/2" = 1"

PLACE BUTYL TAPE
0.75" W X 0.19" THK
ALONG BACK OF
HOOD FLANGE & SCURE
TO UNIT WITH
0.25-14X0.75LG TYPE A SCREWS



HOOD FRONT-TOP
16 GAUGE GALV STL



HOOD FRONT-BOTTOM
16 GAUGE GALV STL

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28 2012

OUTDOOR AIR
HOOD ASSEMBLY

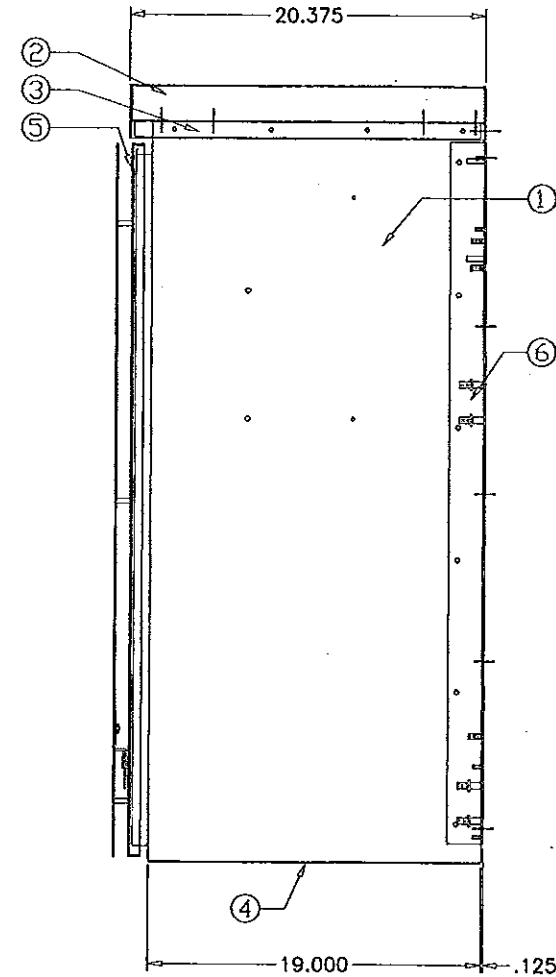
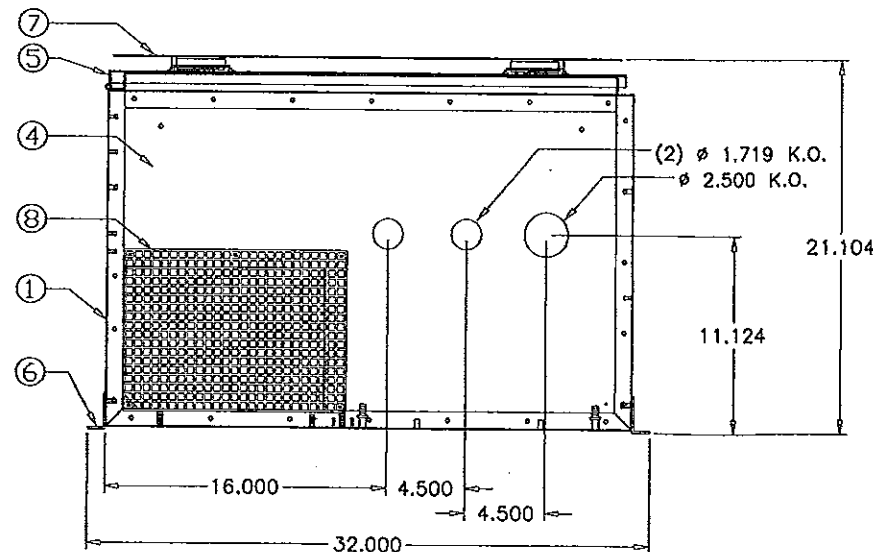
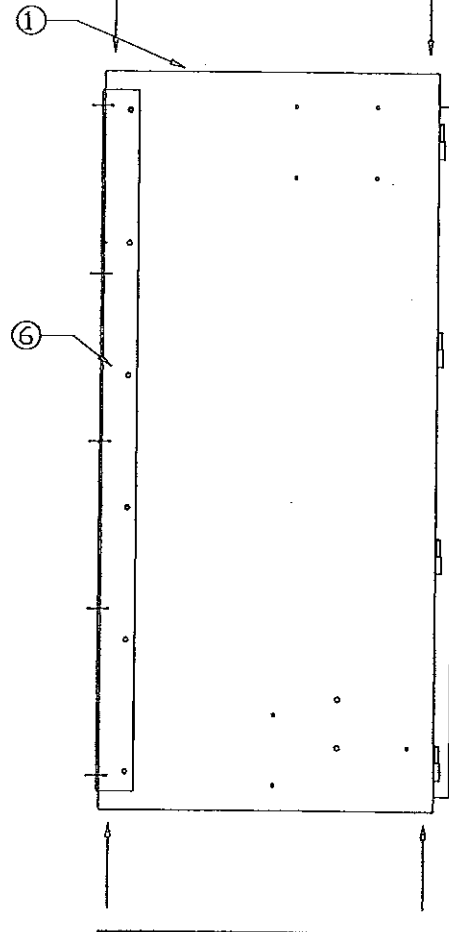
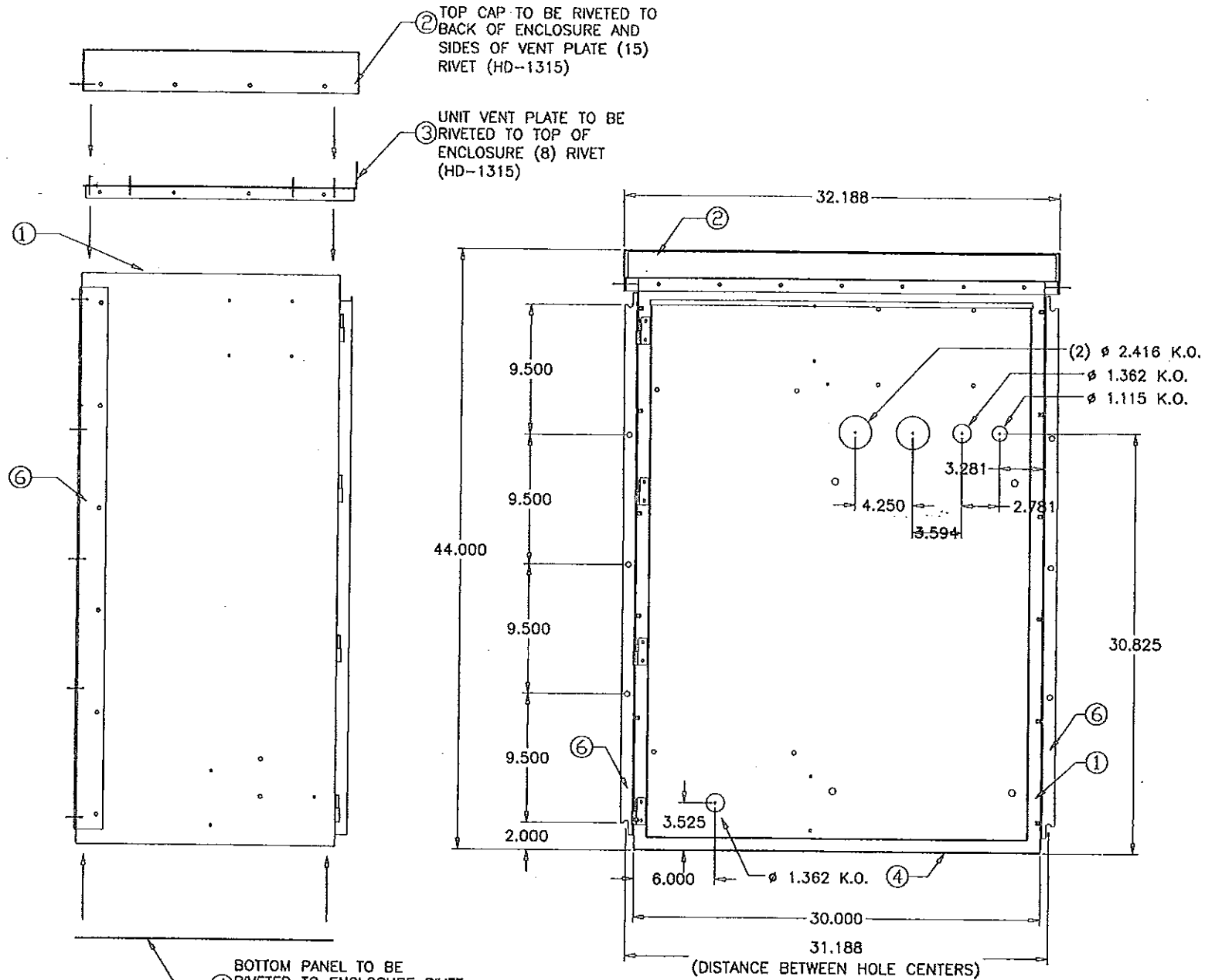
1/2" = 1'-0"

af c
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06-07
sheet 16 of 17



PARTS LIST			
ITEM	DRAWING NO.	ITEM DESCRIPTION	QTY.
1	207931	ENCLOSURE ASSEMBLY	1
2	207935	ENCLOSURE TOP CAP	1
3	207936	UNIT VENT PLATE	1
4	207937	BASE PANEL	1
5	207938	ENCLOSURE DOOR	1
6	207942	MOUNTING RAIL	2
7	207943	SUN SHIELD (DOOR)	1
8	207827	GRILLE	1

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AUG 28 2012

VENTED NEMA 3R
ENCLOSURE ASSEMBLY

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dr. by: HAMID
chk. by:

drawing no.
06-07
sheet 17 of 17